

Item
No

Amount

BILL NO. 1 PRELIMINARIES

NOTES TO PRELIMINARIES

1. The Principal Building Agreement shall be the JBCC Series 4th Edition, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry.
2. The Preliminaries shall the JBCC Series, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.
3. Tenderers are referred to the above mentioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only.
4. Where standard clauses or alternatives are not 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 Part C hereof.
5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items in these bills of quantities which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.
6. The tenderer 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 supersede any conflicting provision in the relevant clauses of the Principal Building Agreement or the Preliminaries 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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PART A - PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 CLAUSE 1.0 : DEFINITIONS AND INTERPRETATION

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

OBJECTIVE AND PREPARATION

2 CLAUSE 2.0 : OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS

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

PREPARATION

3 CLAUSE 3.0 : DOCUMENTS

Clause 3.1 is deleted and substituted with:

This tender is for Government. No Payment Guarantee will be provided.

Clause 3.3 is deleted and substituted with:

This tender is for Government. No Payment Guarantee will be provided.

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

4 CLAUSE 4.0 : DESIGN RESPONSIBILITY

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

5 CLAUSE 5.0 : EMPLOYER'S AGENTS

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

6 CLAUSE 6.0 : CONTRACTOR'S SITE REPRESENTATIVE

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

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7 CLAUSE 7.0 : COMPLIANCE WITH LAWS AND REGULATIONS

Without limiting the generality of the provisions of clause 7.0 of the agreement, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993 in which it is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The principal agent shall, on behalf of the employer, issue such health and safety specification and the contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification, provided such provisions are reasonable in terms of the act and the regulations.

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

8 CLAUSE 8.0 : WORKS RISK

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

9 CLAUSE 9.0 : INDEMNITIES

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

10 CLAUSE 10.0 : WORKS INSURANCES

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

11 CLAUSE 11.0 : LIABILITY INSURANCES

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

12 CLAUSE 12.0 : EFFECTING INSURANCES

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

13 CLAUSE 13.0 : STATE PROVISIONS

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

14 CLAUSE 14.0 : SECURITY

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

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EXECUTION

15 CLAUSE 15.0 : PREPARATION FOR AND EXECUTION OF THE WORKS

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

16 CLAUSE 16.0 : ACCESS TO THE WORKS

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

17 CLAUSE 17.0 : CONTRACT INSTRUCTIONS

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

18 CLAUSE 18.0 : SETTING OUT OF THE WORKS

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

19 CLAUSE 19.0 : ASSIGNMENT

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

20 CLAUSE 20.0 : NOMINATED SUBCONTRACTORS

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

21 CLAUSE 21.0 : SELECTED SUBCONTRACTORS

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

22 CLAUSE 22.0 : EMPLOYER'S DIRECT CONTRACTORS

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

23 CLAUSE 23.0 : CONTRACTOR'S DOMESTIC SUBCONTRACTORS

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

COMPLETION

24 CLAUSE 24.0 : PRACTICAL COMPLETION

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

25 CLAUSE 25.0 : WORKS COMPLETION

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

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26 CLAUSE 26.0 : FINAL COMPLETION
 F:..... V:..... T:.....

27 CLAUSE 27.0 : LATENT DEFECTS LIABILITY PERIOD
 F:..... V:..... T:.....

28 CLAUSE 28.0 : SECTIONAL COMPLETION
 F:..... V:..... T:.....

29 CLAUSE 29.0 : REVISION OF DATE FOR PRACTICAL COMPLETION
 F:..... V:..... T:.....

30 CLAUSE 30.0 : PENALTY FOR LATE OR NON-COMPLETION
 F:..... V:..... T:.....

PAYMENT

31 CLAUSE 31.0 : INTERIM PAYMENT TO THE CONTRACTOR
 F:..... V:..... T:.....

32 CLAUSE 32.0 : ADJUSTMENT TO THE CONTRACT VALUE
 F:..... V:..... T:.....

33 CLAUSE 33.0 : RECOVERY OF EXPENSE AND LOSS
 F:..... V:..... T:.....

34 CLAUSE 34.0 : FINAL ACCOUNT AND FINAL PAYMENT

Clause 34.1 is amended as follows:

The Principal Agent shall prepare a final account for submission to the Contractor within 180 (One hundred and eighty) calender days

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

35 CLAUSE 35.0 : PAYMENT TO OTHER PARTIES
 F:..... V:..... T:.....

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CANCELLATION

36 CLAUSE 36.0 : CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT

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

37 CLAUSE 37.0 : CANCELLATION BY EMPLOYER - LOSS AND DAMAGE

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

38 CLAUSE 38.0 : CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT

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

39 CLAUSE 39.0 : CANCELLATION - CESSATION OF THE WORKS

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

DISPUTE

40 CLAUSE 40.0 : SETTLEMENT OF DISPUTES

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

CONTRACT AGREEMENT

41 CLAUSE 41.0 : THE SCHEDULE: PRE-TENDER INFORMATION

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

CONTRACT VARIABLES

42 CLAUSE 42.0 : THE SCHEDULE: PRE-TENDER INFORMATION

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

CLAUSE 42.1 : CONTRACTING AND OTHER PARTIES

Employer: Eastern Cape Department of Transport

Postal address: **Private Bag X0023, Bisho, South Africa**

Telephone: **043 604 7566**

Physical address: **Fleming Street, Buffalo Industrial, King Williams Towns, 5600**

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Agent's Service: Principal Agent, Architect, Structural and Civil Engineer

Agent (1): **BMK Consulting Engineers**
Postal address: **14 Stewart Drive, Baysville, East London, 5241**
Telephone: **031 566 1160**
Facsimile: **031 566 1732**
Physical address: **14 Stewart Drive, Baysville, East London, 5241**

CLAUSE 42.2 : CONTRACT DETAILS

2.1 The law applicable to this agreement shall be that of
[1.7]

South Africa

Clause 42.2.1

Works description: **New Vehicle Testing Facility**

Clause 42.2.2

Site description:

Clause 42.2.3

Work or Installations by Others: **Yes**

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 40.4) 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: **15 working days from the date of the letter of appointment to the Contractor.**

Clause 42.2.6

Period for the commencement of the works after the contractor takes possession of the site: **2 Working days.**

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Clause 42.2.7

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

Practical Completion: 300 Working Days from commencement of the works

Penalty amount of R 5,150.00 per calendar day

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: **South Africa**

INSURANCES

Clause 42.3.1

Contract works insurance to be effected by Contractor for the sum of: **Contract Sum plus 20%**

With a deductible of: **to be determined by the Contractor but not greater than the maximum of R 50,000.00 as stipulated by the Municipality**

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 the Contractor for the amount of: **R 10 million**

With a deductible of: **R 2,500.00**

CLAUSE 41.4 : DOCUMENTS

Clause 42.4.1

Waiver of the contractor's lien is required: **Yes**

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Clause 42.4.2

Construction document copies to be supplied to the contractor free of charge: **Three**

Clause 42.4.3

Specification drawn up in accordance with: **Model Preamble for Trades 2008 as issued by the Association of South African Quantity Surveyors**

Clause 42.4.4

Number of days for submission of priced documents: **15 days from the Letter of Appointment.**

Clause 42.4.5

JBCC Engineering General Conditions are to be included in the document: **No**

Clause 42.4.6

The contract value is to be adjusted using CPAP: **Yes**

Refer to Clause 32 of these Preliminaries for details.

Clause 42.4.7

Details of changes made to be provisions of JBCC standard documentation:

Note: The tenderer must study the modifications and amendments made to the relevant clauses in the Preliminaries section of the specification, under each clause heading. It should be noted that the reference is made hereunder merely to draw the tenderers attention of clauses that have been amended or modified and the tenderer, when submitting his tender is deemed to have examined the relevant clauses for details of the amendments and modifications of the clauses in the Preliminaries.

Refer to the relevant clauses for the full details of changes:

- Clause 3 - Documents
- Clause 7 - Compliance with regulations
- Clause 9 - Indemnities
- Clause 18 - Setting out of the works
- Clause 27 - Latent defects liability period
- Clause 31 - Interim payment to the contractor
- Clause 34 - Final account and final payment

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PART B - PRELIMINARIES

CLAUSE B2 : DOCUMENTS

Clause B2.1 : Checking of documents

The items in these **Bills of Quantities** are to be read and priced in conjunction with, and the descriptions regarded as amplified by the General Preambles for Trades as published by the Ethekwini Municipality, and no claim arising from brevity of description of items fully described in the said General Preambles for Trades and Supplementary documentation will be entertained.

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.

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

43

Clause B2.2 : Bills of Quantities

The Bills of Quantities are not to be used for ordering materials under any circumstances whether this be with regard to description of specification of materials or goods required, or with regard to quantities. Failure to comply with this condition is entirely at the Contractor's own risk. The Contractor shall be obliged upon instruction of the Principal Agent to execute such quantities of and classes and kinds of work as the Principal Agent in his sole discretion may deem necessary or which, in the Principal Agent's opinion, become expedient from time to time or which may be required to meet the Employer's requirements, whether or not such quantities of and classes of kinds of work may appear in these Bills of Quantities of the contract drawings.

The consideration payable to the Contractor in respect of the works shall be determined by the Agent by the application of rates contained in the priced Bills of Quantities to the quantities and classes and kinds of work actually executed, which quantities of and classes and kinds of work shall be determined by the Agent. The rates contained in the priced Bills of Quantities shall apply irrespective of the final quantities of the different classes and kinds or work actually executed. No claims for extras, loss of profit, variation of rates or other similar claims will be entertained as a result of any variations whatsoever between the quantities of work actually executed, nor as a result of any variation whatsoever between the contract sum and the final value of works.

Budgetary Allowances, Prime Cost Amounts, Provisional Amounts, etc., contained herein may be omitted or reduced at the principal agent's discretion and the contractor shall not be entitled to claim for any loss by way of reduction or omission of any discounts, or percentage relating to Budgetary Allowances, Prime Cost Amounts, Provisional Amounts, etc., or any loss of profit related thereto.

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

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44 Clause B2.3 : Availability of Construction Documentation
 F:..... V:..... T:.....

45 Clause B2.4 : Interests of Agents
 F:..... V:..... T:.....

46 Clause B2.5 : Priced Documents
 F:..... V:..... T:.....

47 Clause B2.6 : Tender Submission
 Notwithstanding anything contained in the clause, Tenders shall be valid for a period of 84 (Eighty Four) calender days from the closing date of tenders.
 F:..... V:..... T:.....

CLAUSE B3 : THE SITE

48 Clause B3.1: Defined works area
 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 the site.
 The tenderer shall ascertain any other restrictions to the area that may be occupied by the Contractor including any restrictions imposed by any buildings, etc. And any limitations or restrictions that may be imposed by any Authorities.
 Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.
 Space on the pavement areas for the storage or building materials, etc., must be arranged with the Local Authorities by the Tenderer who will be responsible for all charges in connection therewith.
 The Tenderer shall make all necessary provision in all rates to take into account there requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.
 F:..... V:..... T:.....

49 Clause B3.2: Geotechnical Investigation
 The geotechnical investigation report is available at the tender office for the tenderers use. By submission of this tender, it is deemed that all tenderers have read and understood the report.
 F:..... V:..... T:.....

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50 Clause B3.3: Inspection of the site
 No claim for extras arising from the contractor having failed to comply with the clause will be entertained.

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

51 Clause B3.4: Existing premises occupied:

Yes

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

52 Clause B3.5: Dimensional accuracy

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

53 Clause B3.6: Previous work - Defects

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

54 Clause B3.7: Services - known

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

55 Clause B3.8: Services - known

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

56 Clause B3.9: Protection of trees

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

57 Clause B3.10: Articles of value

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

58 Clause B3.11: Inspection of adjoining properties

The tenderer shall inspect access roads, etc. and shall be responsible for any damage evident at the end of the contract which has not been pointed out.

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

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CLAUSE B4: MANAGEMENT OF CONTRACT

59 Clause B4.1: Management of the Works

The contractor shall, to the satisfaction of the principal agent, provide the services of an experienced and competent Construction Manager and Site Agent supported by a management team who shall inter alia be responsible for all activities of the contractor and all sub-contractors and in particular:-

- a. Programming
- b. Scheduling
- c. Reporting
- d. Production of shop drawings and samples
- e. Procurement and expediting
- f. Liaison and co-ordinating of construction
- g. Commissioning, instruction, handover and follow up
- h. Monitoring and reporting on building activities taking place off site.

The names and CV's on the contractor's site management team shall be submitted to principal agent prior to commencement on site and, after the principle agent's, agreement on the composition thereof has been obtained. No charges shall be made nor shall any member of the said team be removed from site while remaining in employ of contractor without the principle agent's express written approval.

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

60 Clause B4.2: Programme for the Works

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

61 Clause B4.3: Progress meetings

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

62 Clause B4.4: Technical meetings

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

63 Clause B4.5: Labour and Plant Records

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

CLAUSE B5: SAMPLES AND SHOP DRAWINGS

64 Clause B5.1: Samples of materials

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

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65 Clause B5.2: Workmanship samples
 F:..... V:..... T:.....

66 Clause B5.3: Shop drawings
 F:..... V:..... T:.....

CLAUSE B6: TEMPORARY WORKS AND PLANT

67 Clause B6.1: Deposits and fees
 F:..... V:..... T:.....

68 Clause B6.2: Enclosure of the Works
 The contractor shall erect, maintain and remove at completion ~ hoarding, safety screens, barriers, access gates, covered gangways and the like as necessary for the protection of the public and others.
 F:..... V:..... T:.....

69 Clause B6.3: Advertising
 F:..... V:..... T:.....

70 Clause B6.4: Plant, equipment, sheds and offices
 F:..... V:..... T:.....

71 Clause B6.5: Main notice board
 One notice board shall be provided - refer to Annexure 13
 F:..... V:..... T:.....

72 Clause B6.6: Subcontractor's notice board
N/A
 F:..... V:..... T:.....

CLAUSE B7: TEMPORARY SERVICES

73 Clause B7.1: Location
 F:..... V:..... T:.....

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74 Clause B7.2: Water
 The contractor shall provide water for the works in accordance with:
 Alternative A (i.e. To be provided for by the Contractor).
 F:..... V:..... T:.....

75 Clause B7.3: Electricity
 The contractor shall provide electricity for the works in accordance with:
 Alternative A (i.e. To be provided for by the Contractor).
 F:..... V:..... T:.....

76 Clause B7.4: Telecommunication equipment
 The contractor shall provide telephones for the works in accordance with:
 Alternative A (i.e. To be provided for by the Contractor).
 F:..... V:..... T:.....

77 Clause B7.5: Ablution facilities
 The contractor shall provide toilet facilities for the works in accordance with:
 Alternative A (i.e. To be provided for by the Contractor).
 F:..... V:..... T:.....

CLAUSE B8: PRIME COST AMOUNTS

78 Clause B8.1: Responsibility for prime cost amounts
 F:..... V:..... T:.....

CLAUSE B9: ATTENDANCE ON N/S SUBCONTRACTORS

79 Clause B9.1: General Attendance
 F:..... V:..... T:.....

80 Clause B9.2: Commissioning - fuel, water and power
 F:..... V:..... T:.....

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CLAUSE B10: FINANCIAL ASPECTS

81 Clause B10.1: Statutory taxes, duties and levies

Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).

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

82 Clause B10.2: Payment of Preliminaries

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

83 Clause B10.3: Adjustment of Preliminaries

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

84 Clause B10.4: Payment certificate cash flow

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

85 Clause B10.5: Contractor information supply

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

CLAUSE B11: GENERAL

86 Clause B11.1: Protection of the Works

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

87 Clause B11.2: Protection / Isolation of existing / Sectionally occupied works

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

88 Clause B11.3: Site security

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

89 Clause B11.4: Notice before covering work

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

90 Clause B11.5: Disturbance

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

91 Clause B11.6: Works cleaning and clearing

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

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92 Clause B11.7: Vermin
 F:..... V:..... T:.....

CLAUSE B12: SCHEDULE OF VARIABLES

93 Clause B12.1: Pre-tender information
 Information necessary for making choices and completion of those clauses contained in the schedule which are necessary for the tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available or that the clause is irrelevant for this specific contract.

Provisional Bills of Quantities (B2.2)

The quantities are provisional (Yes)

Availability of Construction documentation (B2.3)

Interest of Agents (B2.4)

Defined work areas (B3.1)

Tenders shall establish by personal viewing of the site conditions any restrictions imposed by existing buildings, limited means of access and the like.

Geotechnical investigation (B3.2)

Existing premises occupied (B3.4): (N/A)

Services – known (B3.7)

Protection of trees (B3.9)

Inspection of adjoining properties (B3.11)

Enclosure of the works (B6.2)

Offices (B6.4.3)

Main notice board (B6.5) one main notice board shall be provided as per Annexure 13

Sub-contractors notice board (B6.6)

A notice board is required (No).

Water (B7.2)
 Alternative chosen: A

Electricity (B7.3)
 Alternative chosen: A

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Telecommunications (B7.4)
Alternative chosen: A

Ablution facilities (B7.5)
Alternative chosen: A

Special Attendance (B9.2)

Protection of the Works (B11.1)

Protection/isolation of existing/sectionally occupied works (B11.2)

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PART C - SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries

C1: Proprietary branded products

94 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.

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

C2: Trade Names, etc.

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

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

C3: Contractors responsibility

96 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.

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

C4: Overtime

97 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.

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

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C5: As Built Drawings

98 The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the Structural Engineers's drawings and are to be submitted to the Principal Agent and the Structural Engineer for their records.

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

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

C6: Construction Instructions

99 Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor

The Contractor shall supply and have available at the site of the works at all times, the following site books:

a) Construction Instruction Book:

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

b) Daily Record Book:

Receiving and recording instructions 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 the 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.

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

C7: Labour Record

100 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.

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C8: Plant Record

101 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.

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

C9: Encroachment

102 During the course of the building operations the contractor shall be held completely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes by the Principal Agent shall be borne by the Contractor.

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

C10: Method Statement

103 The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of constructions and labour and plant resources that he purposes 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.

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

C11: Unauthorised Persons / Workmen on Premises

104 The contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.
No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.

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

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C12: Mode of Procedure

105 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.

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 manpower and resources and shall work overtime and do everything else required to bring the work back to programme to the satisfaction for the Principal Agent and to the Contractor’s cost.

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

C13: Shop Drawings

106 The term ‘shop drawings’ shall mean drawings, layout drawings, diagrams, illustrations, schedules, performance, charts, brochures, operating manuals and other data which are prepared by the Contractor or any Sub-Contractor, manufacturer, supplier or distributor and which illustrate the specified portion of the work. The Contractor shall ensure that all shop drawings required for the Works in terms of this Contract, all Selected/Nominated Sub-Contracts and/or any Principal Agent’s instruction, are prepared and submitted timeously in accordance with the following procedure:

- a) Three prints of shop drawings of all fabricated work, working or setting out drawings, shop details and schedules shall be submitted to the Principal Agent, for approval. Such work shall not be carried out until such approval has been given.
- b) Shop drawings shall be submitted to the Principal Agents for approval at least two weeks prior to the date on which such approval is required in order to comply with the Contract Programme.
- c) All submissions shall be prepared in accordance with the Contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together with any cost and/or time implications.

Delays in approval of shop drawings due to non-compliance with drawings, specifications and/or Principal Agent’s instructions shall not constitute grounds for any claims for delay, extension of time and the like.

- d) When the Principal Agent advises that shop drawings have been approved, the original transparencies of such drawings shall immediately be submitted to the Principal Agent so that the Principal Agent’s stamp of approval may be appended thereto. Thereafter four prints of the approved shop drawings, setting out drawings and schedules shall be furnished to the Works. No work shall be performed in accordance with drawings and/or catalogues not stamped with the Principal Agent’s approval.
- e) The Contractor, Sub-Contractor or Supplier, as the case may be, shall be

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responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work.

- f) The Architects approval of shop drawings is limited to checking conformity with specification and shall not relieve the Contractor, Sub-Contractor or Supplier of his responsibility for design, erection or installation fit, nor does it vary his contractual or delictual obligations and liabilities.
- g) Should the Contractor, Sub-Contractor or Supplier be of the opinion that corrections to shop drawings made by the Architect constitute a change to the scope of work, then he shall immediately advise the Architect in writing of this, together with the cost and/or programme implications thereof, in order to obtain Architects directive.
- h) One additional copy of the final approved set of shop drawings is be to submitted to the Quantity Surveyors for purposes of valuation remeasurement.

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

C14: Commodities to be New

107 All commodities, goods, articles or materials throughout the building are to be new except where re-use of existing is specified and are to be handled, store, used, and/or fixed with care to ensure that they are likewise in the perfect condition when handed over at the completion of the Work.

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

C15: Standard of Workmanship and Materials

108 In the absence of the detailed specifications for any item or items, National Buildings Regulations, the latest applicable South African Bureau of Standards Specification, or where such does not exist, then the latest applicable British Standard Specification shall apply.

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

C16: Making Good

109 All materials and workmanship in building up, making good, etc., are to match existing and where new materials abut existing, they are to be neatly jointed the same.

Making good where abutting walls, etc., are removed, shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, continuous with surrounding surfaces and matching of same, is obtained to the Architect's satisfaction.

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

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C17: Location of Temporary Buildings and Temporary Services

110 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.

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.

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

C18: Removal and Making Good of Temporary Works, etc. on completion

111 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 there from.

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C19: Overloading

112 The tenderer shall prior to submitting his tender determine from the Engineers any constraints and limitations in respect of Works to be executed, which have loads limitations.

The Contractor shall take all necessary steps to ensure that no damage occur due to overloading of any portion of the Works. The Contractor shall submit details of his proposed loading, storage, plant erection, etc., to the Principal Agents for their approval prior to proceeding with such loading, storing, erecting or executing work and shall comply with pay for the Engineers requirements in connection with the provision of temporary support work, etc. Any damage caused by the Works by overloading shall be made good by the Contractor at his sole expense.

Notwithstanding any approval given by the Principal Agent or Engineer, the Contractor shall be entirely responsible for damage caused to the Works by overloading which damage shall be made good by the Contractor at his sole expense.

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

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C20: Tender Sum to be Fully inclusive

113 The tender sum is deemed to be the fully inclusive price for the finished work described and is deemed to include the inter alia for:

- Supply of all materials
- Labour of every description including additional costs incurred in working overtime, weekends, public holidays, etc., to meet the stipulated programme dates.
- All making, transport, conveying, cartage, carriage and delivery, etc.
- Taking delivery, unloading, storing, unpacking, hoisting or lowering, settings, fixing and building into positions, cutting and waste, templates, patterns and models.
- Provision and maintenance of all plant, equipment, machines, trucks and other vehicles, tackle, tools, staging, sheds, stores and temporary works necessary for the due and proper performance of the Contract Works, establishment charges and all fuel, operating costs and depreciation pertaining to plant, equipment, etc.
- All application import taxes and duties
- Overheads and profit
- All obligations arising out of The Bills of Quantities, and all costs and charges deemed necessary for complying with the terms and conditions herein.
- All charges required by the Contractor in connection with Preliminary and General, site establishment and the like.

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

C21: Cost of Claims

114 All costs incurred by the Contractor in the preparation of claims to the satisfaction of the Principal Agent and/or Quantity Surveyor shall be borne by the Contractor.

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

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C22: Media Release

115 All rights of publication of articles in the media, together with any advertising relating to, or in any way connected with this project shall vest in the Employer.

The Contractor, together with his Sub-Contractor shall not, without the written consent of the Principal Agent, cause and any statement or advertisement to be printed, screened or aired by the media.

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

C23: Guarantees and Maintenance Manuals

116 The Contractor shall obtain and hand over to the Principal Agent on Practical Completion, all relevant guarantees, any operating and maintenance instruction manuals, data, or instructions required by the Principal Agent or provided by the manufacturer's suppliers or Sub-Contractors.

The Contractor shall ensure that all warranties and guarantees received are fully ceded to the Employers on Final Completion, failing which the release of the Construction Guarantee will be withheld until this is satisfactorily completed.

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

C24: Occupational Health and Safety Act

117 The Contractor shall for the duration of this contract be deemed to be the mandatory of the council for purposes of the Occupational Health and Safety Act, Act 85 of 1993, and he shall prior to taking occupation of the site satisfy the Council by means of written representations that he has fully complied with the relevant requirements of the said Act.

Acceptance by the Council of Contractors written representations in terms of the above shall constitute an agreement in writing to the arrangements and procedures between the parties to ensure compliance by the Contractor with the provisions of the Act referred to therein, for the purposes of Section 37 (2) of the said Act.

The council shall at all times have the right to summarily suspend the performance of the Contractor hereunder pending compliance by the Contractor with any requirement, regulation and/or direction to.

The council shall be entitled to set-off against any amount owed by the Council to the Contractor hereunder any loss or damage suffered by it as a result of the suspension of the Contractor's performance in the circumstances envisaged above.

The Tenderer shall price for all necessary items to comply with the Occupational Safety and Health Specification contained in **Annexure 10** of these Bill of Quantities.

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

C25: Notes to Tenderers

118 Items which the Tenderer wishes to price in order to provide for the due observance of the

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Section No. 1
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requirements of the 'Notes to Tenderers' outlines at the beginning of this Specification may be priced under this item:

1. Tenders, Tender Forms and Closing Date
2. Fax Tenders
3. Withdrawal of Tenders
4. Acceptance of Tenders
5. Scope of Contract
6. System of Measurement
7. Documentation to be submitted with Tender
8. Contract Price Adjustment Provisions
9. Conditions Pertaining to Targeted Procurement
10. Contract Participation Goal
11. Labour Goals
12. FTE (Full Time Equivalent) Employment Information
13. Community Liaison Officer, etc.
14. Application for Service Connections
15. Viewing the Site
16. Communications with members of tender/bid Community
17. Tender Fee
18. Market Related Wage Rates
19. Tender Prices and Contingency Sum
20. Value Added Tax
21. Tax Clearance Certificate
22. Occupational Health and Safety Act
23. CIDB Register of Contractors
24. Registration on Central Suppliers Database (CSD)
25. Contractors Domestic Sub-Contractors for Plumbing/Electrical Installation
26. Contractors Domestic Sub-Contractors for Plumbing/Electrical Connections
27. Use Propriety Products
28. Termination of Contracts
29. Appeal Process
30. Prohibitions on awards to persons in the service of the state
31. Minimum experience required
32. Performance monitoring and assessment of service providers
33. Empowerment strategies
34. Schedule of drawings
35. Contract period
36. Electronic tender document
37. Additional conditions of contract
38. Pricing of "Notes to Tenderers"

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

Carried to Final Summary R

Section No. 1
 Bill No. 1
 Preliminaries and General

Item No	Quantity	Rate	Amount
<p><u>SECTION 2: ADMIN OFFICE</u></p>			
<p><u>BILL NO. 1</u></p>			
<p><u>EARTHWORKS</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>NOTES</u></p>			
<p><u>Working space</u></p>			
<p>No working space has been measured nor will any claim for working space be considered. The Contractor is deemed to have provided for working space in the rates of the affected items</p>			
<p><u>Carting away of surplus excavated material</u></p>			
<p>Note that the carting away of excavated material is measured as a separate item, unless specifically stated otherwise. Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks, etc., directly from the excavations or, alternatively, from stock piles situated on the building site. The material shall be carted away to a dumping site to be located by the contractor. All dumping costs related to such carting away shall be deemed included in the rates for the cart away items</p>			
<p><u>Dust control</u></p>			
<p>The Contractor shall take all necessary and reasonable measures to acceptably control all dust associated with the works which shall include for watering down at least twice a day for the duration of the contract, if so required</p>			
<p>Carried Forward</p>			
<p>Section No. 2 Bill No. 1 Earthworks</p>			
		R	

Brought Forward			R
<u>EXCAVATIONS, FILLING, ETC</u>			
<u>Excavate in pickable material not exceeding 2m deep below reduced or natural ground level and set aside for use as filling (backfilling elsewhere)</u>			
1	Trenches and Holes	m3	268
<u>Disposal of excavated material</u>			
2	Extra over all excavations for loading and carting away surplus excavated material from the site and dumping at a dumping ground to be located by the Contractor (Excavated volume measured - no allowance made for bulking)	m3	77
<u>Keeping works free of water</u>			
3	Allow for the bailing, pumping or otherwise in keeping the works free from all water or mud (All buildings)		Item
<u>Allow for risk of collapse of vertical sides of trenches, column bases, lift pits, etc</u>			
4	From ground or reduced level to not exceeding 1,5m deep	m2	738
<u>EARTH FILLING, ETC.</u>			
<u>Natural gravel material obtained from excavations or prescribed stockpiles on site, consolidated in 150mm thick layers and compacted to 93% Mod. AASHTO maximum density</u>			
5	Backfilling to trenches and holes	m3	191
<u>Selected G5 filling material supplied by the contractor and carted onto site, consolidated in 150mm thick layers and compacted to 95% Mod. AASHTO maximum density</u>			
6	Under floors, pavings, etc	m3	60
<u>Compaction of surfaces</u>			
7	Rip and scarify top of filled or excavated surfaces for a depth of 150mm, break down or remove oversize material, add suitable material where required and recompact to 95% Mod AASHTO density	m2	400
Carried Forward			R
Section No. 2			
Bill No. 1			
Earthworks			

Brought Forward

Additional soil tests to be carried out as directed by the Principal Agent

Note: Prices for soil tests must be included in the Contractor's rates for earthworks items

8	Modified AASHTO Density tests	No	10
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SOIL POISONING

"Rentokil" or similar approved treatment

9	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	400
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10	Sides and bottom of trenches and holes	m2	930
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R

Carried Forward to Summary of Section No. 2

Section No. 2
 Bill No. 1
 Earthworks

R

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 2</u></p>			
<p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Cost of tests</u></p>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the engineer. (Test cubes are measured separately)</p>			
<p><u>Formwork</u></p>			
<p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p>			
<p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p>			
<p>Carried Forward</p>			
<p>Section No. 2 Bill No. 2 Concrete, Formwork and Reinforcement</p>			
			R

Brought Forward			R
<p>Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p>			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>10MPa/19mm concrete</u>			
1	Surface blinding under footings and bases	m3	10
<u>REINFORCED CONCRETE CAST AGAINST ROUGH FORMWORK</u>			
<u>30MPa/19mm concrete</u>			
2	Strip footings	m3	67
3	Bases	m3	0.4
4	Surface bed	m3	60
<u>TEST BLOCKS</u>			
5	Allow for set of three size 150 x 150 x 150 mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent	Sets	14
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a power float</u>			
6	Surface beds, slabs, etc.	m2	400
<u>SLEEVES, CORES ETC</u>			
Carried Forward			R
<p>Section No. 2 Bill No. 2 Concrete, Formwork and Reinforcement</p>			

Brought Forward			R
<u>Plastic sleeves for pipes</u>			
7	50mm PVC Sleeve cast in 150mm concrete surface bed	No	50
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
<u>Rough formwork to sides</u>			
8	Bases	m2	3
9	Strip footings	m2	169
<u>MOVEMENT JOINTS ETC</u>			
<u>Expansion joints with 15mm compressible filler with tear off strip between vertical concrete/brick surfaces:</u>			
10	20mm Joints not exceeding 300mm high	m	484
<u>20mm Expansion joint of "Jointex" or similar approved high density polystyrene expansion joint filler including necessary blocking piece for tearing out later</u>			
11	20mm Joints not exceeding 300mm high	m	50
<u>Saw cut joints</u>			
12	6 x 30mm Saw cut joints in top of concrete	m	130
<u>REINFORCEMENT</u>			
<u>Fabric reinforcement</u>			
13	Type 395 reinforcement in concrete surface beds, slabs, etc	m2	400
<u>Mild and high tensile steel reinforcement to structural concrete work (Note: the following item has not been separated into various diameters and this principle will apply when remeasuring the item)</u>			
14	Various diameter bars not exceeding 13 meter lengths.	kg	6,740
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 2			
Concrete, Formwork and Reinforcement			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 3</u></p>			
<p><u>MASONRY</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>GENERALLY</u></p>			
<p><u>Fire Bricks:</u> Fireclay and silica firebricks shall comply with SABS 35 and shall be capable of passing the refractory tests covered by SABS Code of Practice 016</p>			
<p><u>Cement Bricks:</u> Cement bricks shall be at least Class 7 complying with SABS 589</p>			
<p><u>Hollow Clay Building Blocks:</u> Hollow clay building blocks shall comply with SABS 589</p>			
<p><u>Mortar, etc:</u> All mortar shall be mixed in a mortar mixing machine or on a non-absorbent, close-jointed timber or iron platform. The mixing machine or platform shall be kept clean and old mortar shall be removed before any new batch of mortar is prepared for mixing</p>			
<p><u>Mortar Boards:</u> All dagha boards must be cleaned off at the end of each day</p>			
<p><u>Brickwork and Blockwork Generally</u></p>			
<p><u>Gauge rod:</u> A gauge rod must be prepared for the Architect's approval before any brickwork is commenced and all brickwork or blockwork must be built to this gauge</p>			
<p><u>Levelling:</u> The brickwork or blockwork, etc must be levelled at each course, window sills and floors</p>			
<p>Carried Forward</p>			
<p>Section No. 2 Bill No. 3 Masonry</p>			
			R

Brought Forward			R
<u>Pointing</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<u>BRICKWORK IN FOUNDATIONS</u>			
<u>NFX clay stock load bearing bricks in class I cement mortar</u>			
1	One brick walls	m2	242
<u>BRICKWORK IN SUPERSTRUCTURE</u>			
<u>Brickwork NFP clay stock load bearing bricks in class II cement mortar</u>			
2	Half brick walls	m2	57
3	One brick walls	m2	725
<u>FACE BRICKWORK</u>			
<u>Facebricks at a net purchase price of R 7500/1000 bricks delivered to site and pointed with recessed horizontal and vertical joints</u>			
4	Extra over face bricks to external walls	m2	231
<u>BRICKWORK SUNDRIES</u>			
<u>Bagging of 1:3 cement and sand mixture</u>			
5	On inner face of cavity walls	m2	350
<u>Brickwork reinforcement:</u>			
6	75mm Wide reinforcement built in horizontally	m	171
7	150mm Wide reinforcement built in horizontally.	m	3,385
<u>LINTELS</u>			
<u>Approved prestressed fabricated lintels</u>			
8	110 x 70mm Lintels in lengths not exceeding 3m	m	42
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 3			
Masonry			

Item No	<u>BILL NO. 4</u>	Quantity	Rate	Amount
	<p><u>WATERPROOFING</u></p> <p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p>			
	<p><u>DAMP-PROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 375 micron embossed damp proof course</u></p>			
1	In walls, cavity walls, under sills, etc laid flat, stepped or vertically as required	m2	30	
	<p><u>One layer of Gundle USB Green 250 micron damp proof sheeting with minimum 150mm overlaps and sealed with Gunplas pressure sensitive tape</u></p>			
2	Under surface beds	m2	400	
	<p><u>"Brixéal" bitumen emulsion waterproof coating</u></p>			
3	Two coats "Brixéal" on bagged brick walls	m2	350	
	<p><u>JOINT SEALANTS ETC</u></p>			
	Carried Forward			R
	<p>Section No. 2 Bill No. 4 Waterproofing</p>			

Brought Forward

Approved sealing compound including backing cord, bond breaker, primer, etc

4 6 x 10mm In saw cut joints in floors

m

130

R

Carried Forward to Summary of Section No. 2

Section No. 2
Bill No. 4
Waterproofing

R

Item No	<u>BILL NO. 5</u>	Quantity	Rate	Amount
	<u>ROOF COVERINGS ETC</u>			
	The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities			
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>Roof sheeting to be Safintra or equally approved 0.5mm thick corrugated profile sheeting fixed to 76 x 50mm SABS approved timber purlins, fixed according to the manufacturers instructions by an Approved installer. Colour: Grey</u>			
1	Roof covering with pitch of 27 degrees	m2	474	
2	Allowance for all flashings		Item	
	<u>Everite pressed nutec-cement</u>			
3	Everite medium density plain ungrooved Nutec fascia boards (Code: 041-202), size 225 x 12mm, fixed to timber rafters twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile fascia joiner between boards and at board ends.	m	109	
	<u>RAINWATER DISPOSAL</u>			
	<u>"Marley Streamline" uPVC</u>			
4	75mm Half round eaves gutters with beaded front edge	m	109	
5	Extra over 75mm eaves gutter for outlet for 75mm rainwater downpipe	No	12	
	Carried Forward			R
	Section No. 2 Bill No. 5 Roof Coverings			

Brought Forward			R
6	75mm Diameter rainwater downpipes	m	38
7	Extra over 75mm downpipe for shoe	No	12
8	Extra over 75mm downpipe for eaves offset 600mm projection	No	12
<u>ROOF INSULATION</u>			
<u>Factorylite Thermal Insulation</u>			
9	Isover 135mm thick Factorylite non-combustible light weight fibreglass Glasswool acoustic ceiling insulation with white metalized foil facing, nominal density 12kg/m ³ , fixed concurrent with the roof covering with galvanised steel straining wires at 300mm centres and tied down top and bottom after tensioning with galvanized hoop iron ties with overlaps stapled together, all in accordance with manufacturer's recommendations	m2	474
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 5			
Roof Coverings			

Item No	<u>BILL NO. 6</u>	Quantity	Rate	Amount
	<u>CARPENTRY AND JOINERY</u>			
	<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
	<u>DOORS</u>			
	<p><u>44mm Thick semi solid core flush panel door with concealed hardwood edges all round, with 3,2mm thick tempered hardboard covering to both sides, hung to steel frames (frames measured elsewhere)</u></p>			
1	Single door 762 x 2032mm high with 170mm undercut	No	5	
	<p><u>44mm Thick solid core flush panel door with concealed hardwood edges all round, with 3,2mm thick tempered hardboard covering to both sides, hung to steel frames (frames measured elsewhere)</u></p>			
2	Single door 813 x 2032mm high	No	16	
3	Double door 1511 x 2032mm high	No	3	
	<p><u>44mm Thick solid core flush panel door with concealed hardwood edges all round, with horizontal grooved timber veneer one side and 3,2mm thick tempered hardboard covering to the other side, hung to steel frames (frames measured elsewhere)</u></p>			
4	Single door 813 x 2032mm high	No	2	
5	Double door 1511 x 2032mm high	No	2	
	Carried Forward to Summary of Section No. 2			R
	<p>Section No. 2 Bill No. 6 Carpentry and Joinery</p>			

Item No	<u>BILL NO. 7</u>	Quantity	Rate	Amount
	<u>CEILINGS AND PARTITIONS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p> <p><u>Descriptions:</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p>			
	<u>SUSPENDED CEILINGS AND BULKHEADS</u>			
	<p><u>9,5mm thick Rhinoboard or equally approved gypsum ceiling boards fixed with clout nails onto 38 x 38mm SABS approved timber battens with clout nails. Battens fixed to braced timber ceiling support structure. Joints to be covered with Rhinotape fixed over joints (double over butt joints) and then plastered with 6mm thick Rhinolite gypsum skim plaster applied as per manufacturers instructions</u></p>			
1	Ceilings, not exceeding 1.0m below timber roof battens, including hangers	m2	371	
2	Extra over flush plastered ceilings for forming holes for 400mm diameter standard downlighters	No	40	
3	Circular Cutting	m	100	
	Carried Forward			R
	<p>Section No. 2 Bill No. 7 Ceilings and Partitions</p>			

Brought Forward			R
<p><u>12.5mm Thick "Nutec" gypsum plasterboard or other approved gypsum ceiling boards fixed with clout nails onto 38 x 38mm SABS approved timber battens with clout nails. Battens fixed to braced timber ceiling support structure. Joints skimmed and the entire surface needs to be plastered with no less than 6mm "Rhino-lite" skim coat to produce a perfectly flush and level ceiling suitable for painting by others.</u></p>			
4	Ceilings, suspended exceeding 1.0m and not exceeding 2.0m below structural steel roof, including hangers (refer to drawing 1226-6U05-A110 Rev 1)	m2	29
5	Circular Cutting	m	10
<p><u>"Rhino" gypsum plasterboard cornices</u></p>			
6	75mm Coved cornices	m	316
<p><u>Shadowline SM25 wall angle plugged at 200mm centres, installed to manufacturer's instructions.</u></p>			
7	Shadowline angle fixed according to manufacturers instructions	m	20
<p>Carried Forward to Summary of Section No. 2</p>			
<p>Section No. 2 Bill No. 7 Ceilings and Partitions</p>			
			R

Item No	<u>BILL NO. 8</u>	Quantity	Rate	Amount
	<p><u>METALWORK</u></p> <p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General</u></p> <p>Tenderers are referred to the Architect's Drawings issued with these Bills of Quantities and are to include in their prices for the fabrication, transport, installation and finishing complete of all elements, including samples, site measurements, preparation of surfaces, painting, etc. as required and any such items of expense necessary to complete the installation.</p> <p>Tenderers must satisfy themselves as to the nature and requirements of the contract. Items left unpriced will be deemed to be covered in prices against other items throughout these Bills of Quantities and no claim for any extras arising out of the Tenderers omission to price any item or to fully understand the scope of work will be entertained.</p>			
	<p><u>PRESSED STEEL DOOR FRAMES</u></p> <p><u>1,2mm Double rebated frames suitable for half brick walls with two 100mm steel hinges per door</u></p>			
1	Frame for door 762 x 2032mm high	No	5	
	Carried Forward			R
	Section No. 2 Bill No. 8 Metalwork			

Brought Forward

1,2mm Double rebated frames suitable for one brick walls with two 100mm steel hinges per door

2	Frame for door 813 x 2032mm high	No	18
3	Frame for door 1612 x 2032mm high	No	5

R

Carried Forward to Summary of Section No. 2

Section No. 2
 Bill No. 8
 Metalwork

R

Item No	<u>BILL NO. 9</u>	Quantity	Rate	Amount
	<u>PLASTERING</u>			
	The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities			
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted			
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
1	30mm Thick on floors and landings	m2	400	
	<u>INTERNAL PLASTER</u>			
	<u>One coat cement plaster on brickwork or concrete</u>			
2	On walls	m2	839	
3	On narrow widths	m2	42	
	<u>EXTERNAL PLASTER</u>			
	<u>One coat cement plaster on brickwork or concrete</u>			
4	On walls	m2	494	
5	On narrow widths	m2	25	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 9 Plastering			

Item No	<u>BILL NO. 10</u>	Quantity	Rate	Amount
	<p><u>TILING</u></p> <p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p>			
	<p><u>WALL TILING</u></p> <p><u>300 x 200 x 6mm Johnsons Glazed ceramic tiles (White) fixed with adhesive to plastered surfaces (plaster elsewhere) and flush pointed with white waterproof grouting</u></p>			
1	On walls in isolated panels, splashbacks, etc;	m2	60	
	<p><u>Listello (Allow PC of R 150/m excluding VAT including delivery on site) top strip fixed with adhesive to plastered surfaces (plaster elsewhere) and flush pointed with white waterproof grouting</u></p>			
2	Listello 100mm high	m	40	
	Carried Forward			R
	<p>Section No. 2 Bill No. 10 Tiling</p>			

Brought Forward			R
	<u>150 x 150mm Glazed ceramic wall tiles (Allow PC of R 150/m² excluding VAT including delivery on site) fixed with adhesive to plastered surfaces (plaster elsewhere) and flush pointed with tinted jointing compound</u>		
3	Splashbacks	m2	5
<u>FLOOR TILING</u>			
	<u>300 x 300mm Porcelain floor tiles (Allow PC - R 250/m²) fixed with GOLDSTAR 6 adhesive according to manufacturer's instructions and flush pointed with grey grout</u>		
4	On floors	m2	400
5	Skirting 100mm high	m	348
<u>Kirk Marketing M-Trim edge trims</u>			
6	Mullet Trim Mill finish 10mm high aluminium straight edge trim (Code: ASE100.MF), bedded in tile adhesive while tiles are laid.	m	348
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 10			
Tiling			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 11</u></p>			
<p><u>PLUMBING AND DRAINAGE</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Bills of Quantities Descriptions</u></p>			
<p>The description of the items in this document is to be read in conjunction with the drawings and is intended as a means of locating and identifying the element only and are not intended as full descriptions and specifications of these items. Quantities contained in these Bills of Quantities are indicative only and shall not be used for ordering purposes. Tenderers shall allow for all costs in connection with the various items taking full cognisance of the drawings, specifications and the Bills of Quantities descriptions.</p>			
<p><u>Specifications</u></p>			
<p>Where specifications and descriptions in this Bill of Quantities are in conflict with any other specifications, then those in the Architect's drawings and/or schedules shall take preference.</p>			
<p>Carried Forward</p>			
<p>Section No. 2 Bill No. 11 Plumbing and Drainage</p>			
			R

Brought Forward		R
<u>Materials</u>		
Generally		
a) All fixtures to be free from imperfections, true to line, angles, curves and colours, smooth, watertight and complete in every respect.		
b) All fixtures to be of vitreous ware shall be fired vitreous chinaware of the best quality, non-absorbent and burned so that the whole mass is thoroughly fused and vitrified, producing a material, white in colour, which when fractured shows a homogeneous mass, close grained and free from pores.		
<u>SANWARE AND BRASSWARE</u>		
<u>WC Suites and Flushmasters</u>		
1	"Vaal Daisy" white vitreous china open rim washdown pan (Code: 751400) suitable for back entry flushmaster pipe, complete with all accessories including "Pennyware Bemis" economy toilet seat (code: 7500)	No 5
2	"Vaal Protea Paraplegic" 90 degree disabled WC pan (code: 750200) and matching cistern (code: 710631) complete with lid, fitments and purpose made chrome plated flush with "Pennywise Bemis" economy toilet seat (code: 7500)	No 1
3	"Cobra" Concealed flush master (code: FJ4.203)	No 6
<u>Wash Hand Basins</u>		
4	"Vaal Hibiscus" wash hand basin 510 x 405mm with two semi punched tapholes, integrated overflow and chainstay hole bolted to wall with and including two 10mm bolts (code: 8448Z0) with black rubber plug and chain	No 6
5	"Vaal Daisy: disabled wash hand basin 3510 x 400mm (code 700803) with two tapholes and overflow bolted to wall using two 10mm bolts (code 8448Z0), 32mm Cobra 301 chrome plated waste union and black rubber plug, chain and stay	No 1
Carried Forward		R
Section No. 2 Bill No. 11 Plumbing and Drainage		

Brought Forward			R
<u>Taps</u>			
6	"Cobra Stella" pillar tap with blue marker (code: 3311ST-15) with supply flexi hose below basin	No	6
7	"Cobra Watertech" 15mm chrome plated elbow action pillar tap with blue indicator or cold water (code: 503-21B)	No	1
8	"Cobra Watertech" chrome plated deep seal bottle trap (code: 345/50) 50mm outlet	No	7
9	"Cobra Watertech Carina" 20mm square pattern pillar tap with aerator outlet and flanged backnut (code: 114CA-20) including plumbing kit	No	1
<u>Urinals</u>			
10	"Vaal Flatback" vitreous china wall hung urinal overall size 415 x 315 x 275mm supplied with 38mm chrome plated domical grating (code: 8787Z0), chrome plated top inlet spreader (code: 8543Z0) and two hanger brackets (code: 8127Z0)	No	2
11	"Cobra FJ6000 Flushmaster" with a FJT 5.5 flushpipe	No	2
<u>Sinks</u>			
12	"Plumbcrazy" grade 304 0,7mm stainless steel double bowl sink and drainer 1200 x 500mm wide (code: 304D-122L)	No	1
<u>Grabrails</u>			
13	"Chairman Industries DL3" dogleg grabrail	No	1
14	"Chairman Industries SR2" backrail	No	1
<u>ELECTRIC WATER HEATERS</u>			
<u>"Kwikot"</u>			
15	100 Litre horizontal wall mounted electric water heater fixed complete including all accessories, valves, piping, fittings, testing, etc.	No	1
<u>INTERNAL WATER SUPPLY AND DRAINAGE RETICULATION</u>			
Carried Forward			R
Section No. 2 Bill No. 11 Plumbing and Drainage			

Brought Forward

R

The contractor is to allow for all necessary water supply piping, drainage, fittings, accessories and testing necessary for the installation of the following sanware and brassware:

16	Kitchen sinks and taps (Hot and cold water)	No	1
17	Wash Hand Basins and taps (Cold water only)	No	7
18	Water Closets (Cold water only)	No	5
19	Urinals (Cold water only)	No	2

Carried Forward to Summary of Section No. 2

R

Section No. 2
 Bill No. 11
 Plumbing and Drainage

Item No	<u>BILL NO. 12</u>	Quantity	Rate	Amount
	<u>GLAZING</u>			
	<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
	<u>MIRRORS, ETC</u>			
	<p><u>4mm thick Bevel edged (polished) "backed silvered" mirror fixed to painted wall with mirror tape and chrome plated mirror screws with dome heads siliconed into place. Screw holes to be 4T from corners where T=4mm</u></p>			
1	600 x 1000mm high	No	7	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 12 Glazing			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 13</u></p>			
<p><u>PAINTWORK</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>NOTES</u></p>			
<p><u>Materials</u></p>			
<p>All painting materials used in this contract shall be of the manufacture specified and shall comply with the manufacturer's application instructions</p>			
<p>When the Contractor's tender has been accepted, he shall submit to the Architect, for approval, a list of all painting and decorating materials he proposes to use. This list shall show the name of the manufacturer and the trade/brand name of the paint or other material. Only those paints and materials that have been approved by the Architect shall be brought on the site and used on the works. The Architect may inspect the paint so brought on and take samples from them for testing purposes</p>			
<p>On no account may paint from different manufacturers be mixed together</p>			
<p>Carried Forward</p>			
<p>Section No. 2 Bill No. 13 Paintwork</p>			
			R

Brought Forward			R
<u>Application of paint</u>			
<p>exterior painting shall not be carried out during rainy, damp, frosty or other inclement weather or when such weather can reasonably be expected within the next 8 hours. Each coat of paint, irrespective of the method of application, shall be adequately and permanently keyed on to the previous coat or surface and shall be evenly distributed, continuous and shall dry to a film free of sags, runs or other imperfections. Each priming coat and undercoat of painting shall be inspected by the Architect before any subsequent undercoat or finishing coat is applied. Priming coats shall be well brushed in to obtain maximum penetration</p> <p>Surface preparation and application to be as per Plascon specification</p>			
<u>PAINT ON PLASTER</u>			
<u>Prepare surfaces and remove all loose material and apply one coat "Plascon Merit Plaster Primer" and two coats "Plascon Super Acrylic PVA" paint</u>			
1	On internal walls	m2	881
2	On external walls	m2	519
<u>ON INTERNAL GYPSUM PLASTER BOARD</u>			
<u>Prepare surfaces and remove all loose material and apply one coat "Plascon Merit Universal Undercoat" and two coats "Plascon Professional Copolymer Acrylic PEM 600" paint according to manufacturers specifications</u>			
3	On ceilings	m2	371
<u>ON FIBRE CEMENT</u>			
<u>Prepare surfaces and remove all loose material and apply one coat "Plascon Merit Universal Undercoat" and two coats "Plascon Professional Copolymer Acrylic PEM 600" paint according to manufacturers specifications</u>			
4	On external fascias and bargeboards	m2	44
Carried Forward			R
Section No. 2 Bill No. 13 Paintwork			

Brought Forward

ON METAL

Prepare surfaces and remove all loose material and apply one coat Plascon Metal Primer, one coat Plascon Universal Undercoat and two coats Plascon Eggshell Enamel paint

5	On door frames	m2	28	
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ON WOOD

Stop, fill, sand down and prepare wood surfaces. Apply one coat "Plascon Wood Primer (UC2)", one coat "Plascon Universal Undercoat (UC1)" and two coats "Plascon Polyurethane Velvagio (VLO) paint according to manufacturers specifications.

6	On doors	m2	129	
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R

Carried Forward to Summary of Section No. 2

Section No. 2
 Bill No. 13
 Paintwork

R

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 14</u></p>			
<p><u>PROVISIONAL SUMS</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>General</u></p>			
<p>Unless otherwise described, all prime cost amounts and provisional sums shall be nett. No provision for 5 percent cash discount shall be included for the main contractor.</p>			
<p>Prime cost amounts and provisional sums exclude value added tax.</p>			
<p>In the event of a prime cost amount or provisional sum being omitted the items "Allow for profit"... and "allow for attendance" applicable, shall be omitted together with the prime cost amount or provisional sum and no claim whatsoever will be entertained in this regard.</p>			
<p>The principle agent shall be entitled to nominate or select any further specialist and other to execute work or supply and fix any goods whether or not a provisional sum is included in the bills of quantities and such specialists and other will then be deemed to be "selected subcontractors" as the case may be.</p>			
<p><u>Profit</u></p>			
<p>Where profit stated, the contractor may allow for profit if required</p>			
<p>Carried Forward</p>			
<p>Section No. 2 Bill No. 14 Provisional Sums</p>			
			R

Brought Forward

R

Attendance upon nominated/selected subcontractors

The item "Allow for attendance...." which follows each provisional sum for nominated/selected subcontractors work, shall be deemed to cover all the contractors costs including scaffolding, incurred in providing free of charge to the subcontractor the service as set out in the relevant clause in the preliminaries

Taking delivery

Taking delivery of goods or articles by the contractor on site shall mean getting in, unpacking, checking that the quantity is correct and that the goods are complete and undamaged, submitting a report thereof to the interested parties and issuing vouchers for the receipt of such goods. The contractor is to store the goods and will be held responsible for the safety thereof and indemnify the employer against any damage or loss which may occur.

Works executed under a separate/direct contract

The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence.

Co-ordination

The contractor shall obtain all necessary particulars of the subcontractors work timeously and the contractor will be responsible for the programming and co-ordination of the works

Number of nominated/selected subcontractors

The contractors attention is drawn to the fact that the indicated individual provisional sums may consist of numerous specialist, which will become nominated/selected subcontractors. The contractor must therefore allow in his tender for any cost implication this may bring about, as no claims in this regard will be entertained

Carried Forward

R

Section No. 2
 Bill No. 14
 Provisional Sums

Brought Forward		R
<u>ALUMINIUM WINDOWS AND DOORS</u>		
1	Provide the amount of R120,000.00 for the Aluminium Windows and Doors	Item 120,000.00
2	Allow for profit on the above item	Item
3	Allow for general attendance	Item
<u>TIMBER ROOF STRUCTURE</u>		
4	Provide the amount of R405,000.00 for the Timber Roof Structure	Item 405,000.00
5	Allow for profit on the above item	Item
6	Allow for general attendance	Item
<u>ELECTRICAL WORKS</u>		
7	Provide the amount of R350,000.00 for the Electrical Works Installation	Item 350,000.00
8	Allow for profit on the above item	Item
9	Allow for general attendance	Item
<u>EARTHING AND LIGHTNING PROTECTION</u>		
10	Provide the amount of R50,000.00 for Earthing and Lightning Protection	Item 50,000.00
11	Allow for profit on the above item	Item
12	Allow for general attendance	Item
<u>FIRE PROTECTION EQUIPMENT</u>		
13	Provide the amount of R30,000.00 for Fire Protection Equipment	Item 30,000.00
14	Allow for profit on the above item	Item
15	Allow for general attendance	Item
<u>STRUCTURAL STEEL COLUMNS</u>		
16	Provide the amount of R25,000.00 for Structural Steel Columns	Item 25,000.00
Carried Forward		R
Section No. 2		
Bill No. 14		
Provisional Sums		

		Brought Forward		R
17	Allow for profit on the above item		Item	
18	Allow for general attendance		Item	
	<u>TOILET ACCESSORIES</u>			
19	Provide the amount of R32,000.00 for Toilet Accessories		Item	32,000.00
20	Allow for profit on the above item		Item	
21	Allow for general attendance		Item	
	<u>JOINERY</u>			
22	Provide the amount of R80,000.00 for supply and installation of Joinery		Item	80,000.00
23	Allow for profit on the above item		Item	
24	Allow for general attendance		Item	
	<u>SUNDRY METALWORK</u>			
25	Provide the amount of R 10,000.00 for Sundry Metalwork		Item	10,000.00
26	Allow for profit on the above item		Item	
27	Allow for general attendance		Item	
	<u>TELEPHONE AND DATA SLEEVES</u>			
28	Provide the amount of R 10,000.00 for Telephone and Data Sleeves		Item	10,000.00
29	Allow for profit on the above item		Item	
30	Allow for general attendance		Item	
	<u>SIGNAGE</u>			
31	Provide the amount of R30,000.00 for Statutory Signage and Naming Signage		Item	30,000.00
32	Allow for profit on the above item		Item	
33	Allow for general attendance		Item	
		Carried Forward		R
	Section No. 2			
	Bill No. 14			
	Provisional Sums			

Brought Forward

R

IRONMONGERY

34	Provide the amount of R80,000.00 for supply and installation of Ironmongery	Item	80,000.00
35	Allow for profit on the above item	Item	
36	Allow for general attendance	Item	

SPLIT UNIT AIRCONDITIONING

37	Provide the amount of R200,000.00 for supply and installation of Split Unit Airconditioning	Item	200,000.00
38	Allow for profit on the above item	Item	
39	Allow for general attendance	Item	

BUDGETARY ALLOWANCES

The following work to be executed by the contractor and valued at the rates included in the Bills of Quantities

40	Provide the amount of R250,000.00 for sundry builders work	Item	250,000.00
41	Provide the amount of R50,000.00 for builders work in connection with services	Item	50,000.00

Carried Forward to Summary of Section No. 2

R

Section No. 2
 Bill No. 14
 Provisional Sums

SECTION SUMMARY - Admin Office

Bill No		Page No	Amount
1	Earthworks	30	
2	Concrete, Formwork and Reinforcement	33	
3	Masonry	35	
4	Waterproofing	37	
5	Roof Coverings	39	
6	Carpentry and Joinery	40	
7	Ceilings and Partitions	42	
8	Metalwork	44	
9	Plastering	45	
10	Tiling	47	
11	Plumbing and Drainage	51	
12	Glazing	52	
13	Paintwork	55	
14	Provisional Sums	60	
Carried to Final Summary			
Section No. 2			R

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 1</u></p>			
<p><u>PROVISIONAL SUMS</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>General</u></p>			
<p>Unless otherwise described, all prime cost amounts and provisional sums shall be nett. No provision for 5 percent cash discount shall be included for the main contractor.</p>			
<p>Prime cost amounts and provisional sums exclude value added tax.</p>			
<p>In the event of a prime cost amount or provisional sum being omitted the items "Allow for profit"... and "allow for attendance" applicable, shall be omitted together with the prime cost amount or provisional sum and no claim whatsoever will be entertained in this regard.</p>			
<p>The principle agent shall be entitled to nominate or select any further specialist and other to execute work or supply and fix any goods whether or not a provisional sum is included in the bills of quantities and such specialists and other will then be deemed to be "selected subcontractors" as the case may be.</p>			
<p><u>Profit</u></p>			
<p>Where profit stated, the contractor may allow for profit if required</p>			
<p>Carried Forward</p>			
<p>Section No. 3 Bill No. 1 Provisional Sums</p>			
			R

<p style="text-align: center;">Brought Forward</p> <p><u>Attendance upon nominated/selected subcontractors</u></p> <p>The item "Allow for attendance...." which follows each provisional sum for nominated/selected subcontractors work, shall be deemed to cover all the contractors costs including scaffolding, incurred in providing free of charge to the subcontractor the service as set out in the relevant clause in the preliminaries</p> <p><u>Taking delivery</u></p> <p>Taking delivery of goods or articles by the contractor on site shall mean getting in, unpacking, checking that the quantity is correct and that the goods are complete and undamaged, submitting a report thereof to the interested parties and issuing vouchers for the receipt of such goods. The contractor is to store the goods and will be held responsible for the safety thereof and indemnify the employer against any damage or loss which may occur.</p> <p><u>Works executed under a separate/direct contract</u></p> <p>The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence.</p> <p><u>Co-ordination</u></p> <p>The contractor shall obtain all necessary particulars of the subcontractors work timeously and the contractor will be responsible for the programming and co-ordination of the works</p> <p><u>Number of nominated/selected subcontractors</u></p> <p>The contractors attention is drawn to the fact that the indicated individual provisional sums may consist of numerous specialist, which will become nominated/selected subcontractors. The contractor must therefore allow in his tender for any cost implication this may bring about, as no claims in this regard will be entertained</p>	<p>R</p>
<p><u>BUDGETARY ALLOWANCES</u></p>	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 3 Bill No. 1 Provisional Sums</p>	<p>R</p>

Brought Forward

The following work to be executed by the contractor and valued at the rates included in the Bills of Quantities

1 Provide the amount of R600,000.00 for the Vehicle Testing Areas

Item

R

600,000.00

Carried to Final Summary

R

Section No. 3
 Bill No. 1
 Provisional Sums

Item No	Quantity	Rate	Amount
<p><u>SECTION 4: GUARDHOUSE AND BIN AREA</u></p>			
<p><u>BILL NO. 1</u></p>			
<p><u>EARTHWORKS</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>NOTES</u></p>			
<p><u>Working space</u></p>			
<p>No working space has been measured nor will any claim for working space be considered. The Contractor is deemed to have provided for working space in the rates of the affected items</p>			
<p><u>Carting away of surplus excavated material</u></p>			
<p>Note that the carting away of excavated material is measured as a separate item, unless specifically stated otherwise. Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks, etc., directly from the excavations or, alternatively, from stock piles situated on the building site. The material shall be carted away to a dumping site to be located by the contractor. All dumping costs related to such carting away shall be deemed included in the rates for the cart away items</p>			
<p><u>Dust control</u></p>			
<p>The Contractor shall take all necessary and reasonable measures to acceptably control all dust associated with the works which shall include for watering down at least twice a day for the duration of the contract, if so required</p>			
<p>Carried Forward</p>		R	
<p>Section No. 4 Bill No. 1 Earthworks</p>			

Brought Forward			R
<u>EXCAVATIONS, FILLING, ETC</u>			
<u>Excavate in pickable material not exceeding 2m deep below reduced or natural ground level and set aside for use as filling (backfilling elsewhere)</u>			
1	Trenches and Holes	m3	25
<u>Disposal of excavated material</u>			
2	Extra over all excavations for loading and carting away surplus excavated material from the site and dumping at a dumping ground to be located by the Contractor (Excavated volume measured - no allowance made for bulking)	m3	12
<u>Keeping works free of water</u>			
3	Allow for the bailing, pumping or otherwise in keeping the works free from all water or mud (All buildings)		Item
<u>Allow for risk of collapse of vertical sides of trenches, column bases, lift pits, etc</u>			
4	From ground or reduced level to not exceeding 1,5m deep	m2	63
<u>EARTH FILLING, ETC.</u>			
<u>Natural gravel material obtained from excavations or prescribed stockpiles on site, consolidated in 150mm thick layers and compacted to 93% Mod. AASHTO maximum density</u>			
5	Backfilling to trenches and holes	m3	13
<u>Selected G5 filling material supplied by the contractor and carted onto site, consolidated in 150mm thick layers and compacted to 95% Mod. AASHTO maximum density</u>			
6	Under floors, pavings, etc	m3	4
<u>Compaction of surfaces</u>			
7	Rip and scarify top of filled or excavated surfaces for a depth of 150mm, break down or remove oversize material, add suitable material where required and recompact to 95% Mod AASHTO density	m2	29
Carried Forward			R
Section No. 4			
Bill No. 1			
Earthworks			

Brought Forward

Additional soil tests to be carried out as directed by the Principal Agent

Note: Prices for soil tests must be included in the Contractor's rates for earthworks items

8	Modified AASHTO Density tests	No	2
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SOIL POISONING

"Rentokil" or similar approved treatment

9	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	29
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10	Sides and bottom of trenches and holes	m2	87
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R

Carried Forward to Summary of Section No. 4

Section No. 4
 Bill No. 1
 Earthworks

R

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 2</u></p>			
<p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Cost of tests</u></p>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the engineer. (Test cubes are measured separately)</p>			
<p><u>Formwork</u></p>			
<p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p>			
<p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p>			
<p>Carried Forward</p>			
<p>Section No. 4 Bill No. 2 Concrete, Formwork and Reinforcement</p>			
		R	

Brought Forward		R
<p>Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p>		
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
<u>10MPa/19mm concrete</u>		
1	Surface blinding under footings and bases m3	1
<u>REINFORCED CONCRETE CAST AGAINST ROUGH FORMWORK</u>		
<u>30MPa/19mm concrete</u>		
2	Strip footings m3	8
3	Surface bed m3	4
<u>TEST BLOCKS</u>		
4	Allow for set of three size 150 x 150 x 150 mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent Sets	2
<u>CONCRETE SUNDRIES</u>		
<u>Finishing top surfaces of concrete smooth with a power float</u>		
5	Surface beds, slabs, etc. m2	29
<u>SLEEVES, CORES ETC</u>		
Carried Forward		R
<p>Section No. 4 Bill No. 2 Concrete, Formwork and Reinforcement</p>		

Brought Forward			R
<u>Plastic sleeves for pipes</u>			
6	50mm PVC Sleeve cast in 150mm concrete surface bed	No	5
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
<u>Rough formwork to sides</u>			
7	Strip footings	m2	21
<u>MOVEMENT JOINTS ETC</u>			
<u>Expansion joints with 15mm compressible filler with tear off strip between vertical concrete/brick surfaces:</u>			
8	20mm Joints not exceeding 300mm high	m	32
<u>20mm Expansion joint of "Jointex" or similar approved high density polystyrene expansion joint filler including necessary blocking piece for tearing out later</u>			
9	20mm Joints not exceeding 300mm high	m	5
<u>Saw cut joints</u>			
10	6 x 30mm Saw cut joints in top of concrete	m	5
<u>REINFORCEMENT</u>			
<u>Fabric reinforcement</u>			
11	Type 395 reinforcement in concrete surface beds, slabs, etc	m2	29
<u>Mild and high tensile steel reinforcement to structural concrete work (Note: the following item has not been separated into various diameters and this principle will apply when remeasuring the item)</u>			
12	Various diameter bars not exceeding 13 meter lengths.	kg	800
Carried Forward to Summary of Section No. 4			
Section No. 4			R
Bill No. 2			
Concrete, Formwork and Reinforcement			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 3</u></p>			
<p><u>MASONRY</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>GENERALLY</u></p>			
<p><u>Fire Bricks:</u> Fireclay and silica firebricks shall comply with SABS 35 and shall be capable of passing the refractory tests covered by SABS Code of Practice 016</p>			
<p><u>Cement Bricks:</u> Cement bricks shall be at least Class 7 complying with SABS 589</p>			
<p><u>Hollow Clay Building Blocks:</u> Hollow clay building blocks shall comply with SABS 589</p>			
<p><u>Mortar, etc:</u> All mortar shall be mixed in a mortar mixing machine or on a non-absorbent, close-jointed timber or iron platform. The mixing machine or platform shall be kept clean and old mortar shall be removed before any new batch of mortar is prepared for mixing</p>			
<p><u>Mortar Boards:</u> All dagha boards must be cleaned off at the end of each day</p>			
<p><u>Brickwork and Blockwork Generally</u></p>			
<p><u>Gauge rod:</u> A gauge rod must be prepared for the Architect's approval before any brickwork is commenced and all brickwork or blockwork must be built to this gauge</p>			
<p><u>Levelling:</u> The brickwork or blockwork, etc must be levelled at each course, window sills and floors</p>			
<p>Carried Forward</p>			
<p>Section No. 4 Bill No. 3 Masonry</p>			
			R

Brought Forward			R
<u>Pointing</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<u>BRICKWORK IN FOUNDATIONS</u>			
<u>NFX clay stock load bearing bricks in class I cement mortar</u>			
1	One brick walls	m2	20
<u>BRICKWORK IN SUPERSTRUCTURE</u>			
<u>Brickwork NFP clay stock load bearing bricks in class II cement mortar</u>			
2	One brick walls	m2	77
<u>BRICKWORK SUNDRIES</u>			
<u>Bagging of 1:3 cement and sand mixture</u>			
3	On inner face of cavity walls	m2	77
<u>Brickwork reinforcement:</u>			
4	150mm Wide reinforcement built in horizontally.	m	231
<u>LINTELS</u>			
<u>Approved prestressed fabricated lintels</u>			
5	110 x 70mm Lintels in lengths not exceeding 3m	m	6
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 3			
Masonry			

Item No	<u>BILL NO. 4</u>	Quantity	Rate	Amount
	<p><u>WATERPROOFING</u></p> <p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p>			
	<p><u>DAMP-PROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 375 micron embossed damp proof course</u></p>			
1	In walls, cavity walls, under sills, etc laid flat, stepped or vertically as required	m2	5	
	<p><u>One layer of Gundle USB Green 250 micron damp proof sheeting with minimum 150mm overlaps and sealed with Gunplas pressure sensitive tape</u></p>			
2	Under surface beds	m2	29	
	<p><u>"Brixéal" bitumen emulsion waterproof coating</u></p>			
3	Two coats "Brixéal" on bagged brick walls	m2	77	
	<p><u>JOINT SEALANTS ETC</u></p>			
	Carried Forward			R
	<p>Section No. 4 Bill No. 4 Waterproofing</p>			

Brought Forward

Approved sealing compound including backing cord, bond breaker, primer, etc

4 6 x 10mm In saw cut joints in floors

m

5

R

Carried Forward to Summary of Section No. 4

Section No. 4
Bill No. 4
Waterproofing

R

Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS ETC</u>			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>Roof sheeting to be Safintra or equally approved 0.5mm thick corrugated profile sheeting fixed to 76 x 50mm SABS approved timber purlins, fixed according to the manufacturers instructions by an Approved installer. Colour: Grey</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	60	
2	Allowance for all flashings		Item	
	<u>Everite pressed nutec-cement</u>			
3	Everite medium density plain ungrooved Nutec fascia boards (Code: 041-202), size 225 x 12mm, fixed to timber rafters twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile fascia joiner between boards and at board ends.	m	11	
	<u>RAINWATER DISPOSAL</u>			
	<u>"Marley Streamline" uPVC</u>			
4	75mm Half round eaves gutters with beaded front edge	m	11	
5	Extra over 75mm eaves gutter for outlet for 75mm rainwater downpipe	No	2	
6	75mm Diameter rainwater downpipes	m	6	
7	Extra over 75mm downpipe for shoe	No	2	
8	Extra over 75mm downpipe for eaves offset 600mm projection	No	2	
	<u>ROOF INSULATION</u>			
	Carried Forward			R
	Section No. 4 Bill No. 5 Roof Coverings			

Brought Forward

Factorylite Thermal Insulation

9 Isover 135mm thick Factorylite non-combustible light weight fibreglass Glasswool acoustic ceiling insulation with white metalized foil facing, nominal density 12kg/m³, fixed concurrent with the roof covering with galvanised steel straining wires at 300mm centres and tied down top and bottom after tensioning with galvanized hoop iron ties with overlaps stapled together, all in accordance with manufacturer's recommendations

m2

60

R

Carried Forward to Summary of Section No. 4

Section No. 4
 Bill No. 5
 Roof Coverings

R

Item No	<u>BILL NO. 6</u>	Quantity	Rate	Amount
	<u>CARPENTRY AND JOINERY</u>			
	<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
	<u>DOORS</u>			
	<p><u>44mm Thick solid core flush panel door with concealed hardwood edges all round, with 3,2mm thick tempered hardboard covering to both sides, hung to steel frames (frames measured elsewhere)</u></p>			
1	Single door 813 x 2032mm high	No	2	
	Carried Forward to Summary of Section No. 4			R
	<p>Section No. 4 Bill No. 6 Carpentry and Joinery</p>			

Item No	<u>BILL NO. 7</u>	Quantity	Rate	Amount
	<p><u>CEILINGS AND PARTITIONS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p> <p><u>Descriptions:</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p>			
	<p><u>SUSPENDED CEILINGS AND BULKHEADS</u></p> <p><u>9,5mm thick Rhinoboard or equally approved gypsum ceiling boards fixed with clout nails onto 38 x 38mm SABS approved timber battens with clout nails. Battens fixed to braced timber ceiling support structure. Joints to be covered with Rhinotape fixed over joints (double over butt joints) and then plastered with 6mm thick Rhinolite gypsum skim plaster applied as per manufacturers instructions</u></p>			
1	Ceilings, not exceeding 1.0m below timber roof battens, including hangers	m2	16	
2	Extra over flush plastered ceilings for forming holes for 400mm diameter standard downlighters	No	4	
3	Circular Cutting	m	5	
	<p><u>"Rhino" gypsum plasterboard cornices</u></p>			
4	75mm Coved cornices	m	30	
	<p>Carried Forward to Summary of Section No. 4</p>			R
	<p>Section No. 4 Bill No. 7 Ceilings and Partitions</p>			

Item No	<u>BILL NO. 8</u>	Quantity	Rate	Amount
	<p><u>METALWORK</u></p> <p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General</u></p> <p>Tenderers are referred to the Architect's Drawings issued with these Bills of Quantities and are to include in their prices for the fabrication, transport, installation and finishing complete of all elements, including samples, site measurements, preparation of surfaces, painting, etc. as required and any such items of expense necessary to complete the installation.</p> <p>Tenderers must satisfy themselves as to the nature and requirements of the contract. Items left unpriced will be deemed to be covered in prices against other items throughout these Bills of Quantities and no claim for any extras arising out of the Tenderers omission to price any item or to fully understand the scope of work will be entertained.</p>			
	<p><u>PRESSED STEEL DOOR FRAMES</u></p> <p><u>1,2mm Double rebated frames suitable for one brick walls with two 100mm steel hinges per door</u></p>			
1	Frame for door 813 x 2032mm high	No	2	
	<p>Carried Forward to Summary of Section No. 4</p> <p>Section No. 4 Bill No. 8 Metalwork</p>		R	

Item No	<u>BILL NO. 9</u>	Quantity	Rate	Amount
	<p><u>PLASTERING</u></p> <p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
	<p><u>SCREEDS</u></p> <p><u>Screeds on concrete</u></p>			
1	30mm Thick on floors and landings	m2	29	
	<p><u>INTERNAL PLASTER</u></p> <p><u>One coat cement plaster on brickwork or concrete</u></p>			
2	On walls	m2	109	
3	On narrow widths	m2	5	
	<p><u>EXTERNAL PLASTER</u></p> <p><u>One coat cement plaster on brickwork or concrete</u></p>			
4	On walls	m2	67	
5	On narrow widths	m2	5	
	<p>Carried Forward to Summary of Section No. 4</p>			R
	<p>Section No. 4 Bill No. 9 Plastering</p>			

Item No	<u>BILL NO. 10</u>	Quantity	Rate	Amount
	<p><u>TILING</u></p> <p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p>			
	<p><u>FLOOR TILING</u></p> <p><u>300 x 300mm Porcelain floor tiles (Allow PC - R 250/m2) fixed with GOLDSTAR 6 adhesive according to manufacturer's instructions and flush pointed with grey grout</u></p>			
1	On floors	m2	16	
2	Skirting 100mm high	m	30	
	<p><u>Kirk Marketing M-Trim edge trims</u></p>			
3	Mullet Trim Mill finish 10mm high aluminium straight edge trim (Code: ASE100.MF), bedded in tile adhesive while tiles are laid.	m	30	
	<p>Carried Forward to Summary of Section No. 4</p>			R
	<p>Section No. 4 Bill No. 10 Tiling</p>			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 11</u></p>			
<p><u>PLUMBING AND DRAINAGE</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Bills of Quantities Descriptions</u></p>			
<p>The description of the items in this document is to be read in conjunction with the drawings and is intended as a means of locating and identifying the element only and are not intended as full descriptions and specifications of these items. Quantities contained in these Bills of Quantities are indicative only and shall not be used for ordering purposes. Tenderers shall allow for all costs in connection with the various items taking full cognisance of the drawings, specifications and the Bills of Quantities descriptions.</p>			
<p><u>Specifications</u></p>			
<p>Where specifications and descriptions in this Bill of Quantities are in conflict with any other specifications, then those in the Architect's drawings and/or schedules shall take preference.</p>			
<p>Carried Forward</p>			
<p>Section No. 4 Bill No. 11 Plumbing and Drainage</p>			
			R

Brought Forward		R
<u>Materials</u>		
Generally		
a) All fixtures to be free from imperfections, true to line, angles, curves and colours, smooth, watertight and complete in every respect.		
b) All fixtures to be of vitreous ware shall be fired vitreous chinaware of the best quality, non-absorbent and burned so that the whole mass is thoroughly fused and vitrified, producing a material, white in colour, which when fractured shows a homogeneous mass, close grained and free from pores.		
<u>SANWARE AND BRASSWARE</u>		
<u>WC Suites and Flushmasters</u>		
1	"Vaal Daisy" white vitreous china open rim washdown pan (Code: 751400) suitable for back entry flushmaster pipe, complete with all accessories including "Pennyware Bemis" economy toilet seat (code: 7500)	No 1
2	"Cobra" Concealed flush master (code: FJ4.203)	No 1
<u>Wash Hand Basins</u>		
3	"Vaal Hibiscus" wash hand basin 510 x 405mm with two semi punched tapholes, integrated overflow and chainstay hole bolted to wall with and including two 10mm bolts (code: 8448Z0) with black rubber plug and chain	No 1
<u>Taps</u>		
4	"Cobra Stella" pillar tap with blue marker (code: 3311ST-15) with supply flexi hose below basin	No 1
5	"Cobra Watertech" chrome plated deep seal bottle trap (code: 345/50) 50mm outlet	No 1
<u>INTERNAL WATER SUPPLY AND DRAINAGE RETICULATION</u>		
Carried Forward		R
Section No. 4 Bill No. 11 Plumbing and Drainage		

Brought Forward

The contractor is to allow for all necessary water supply piping, drainage, fittings, accessories and testing necessary for the installation of the following sanware and brassware:

6	Wash Hand Basins and taps (Cold water only)	No	1
7	Water Closets (Cold water only)	No	1

R

Carried Forward to Summary of Section No. 4

Section No. 4
 Bill No. 11
 Plumbing and Drainage

R

Item No	<u>BILL NO. 12</u>	Quantity	Rate	Amount
	<u>GLAZING</u>			
	<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
	<u>MIRRORS, ETC</u>			
	<p><u>4mm thick Bevel edged (polished) "backed silvered" mirror fixed to painted wall with mirror tape and chrome plated mirror screws with dome heads siliconed into place. Screw holes to be 4T from corners where T=4mm</u></p>			
1	600 x 1000mm high	No	1	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4 Bill No. 12 Glazing			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 13</u></p>			
<p><u>PAINTWORK</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>NOTES</u></p>			
<p><u>Materials</u></p>			
<p>All painting materials used in this contract shall be of the manufacture specified and shall comply with the manufacturer's application instructions</p>			
<p>When the Contractor's tender has been accepted, he shall submit to the Architect, for approval, a list of all painting and decorating materials he proposes to use. This list shall show the name of the manufacturer and the trade/brand name of the paint or other material. Only those paints and materials that have been approved by the Architect shall be brought on the site and used on the works. The Architect may inspect the paint so brought on and take samples from them for testing purposes</p>			
<p>On no account may paint from different manufacturers be mixed together</p>			
<p>Carried Forward</p>			
<p>Section No. 4 Bill No. 13 Paintwork</p>			
			R

Brought Forward			R
<u>Application of paint</u>			
<p>exterior painting shall not be carried out during rainy, damp, frosty or other inclement weather or when such weather can reasonably be expected within the next 8 hours. Each coat of paint, irrespective of the method of application, shall be adequately and permanently keyed on to the previous coat or surface and shall be evenly distributed, continuous and shall dry to a film free of sags, runs or other imperfections. Each priming coat and undercoat of painting shall be inspected by the Architect before any subsequent undercoat or finishing coat is applied. Priming coats shall be well brushed in to obtain maximum penetration</p> <p>Surface preparation and application to be as per Plascon specification</p>			
<u>PAINT ON PLASTER</u>			
<u>Prepare surfaces and remove all loose material and apply one coat "Plascon Merit Plaster Primer" and two coats "Plascon Super Acrylic PVA" paint</u>			
1	On internal walls	m2	114
2	On external walls	m2	72
<u>ON INTERNAL GYPSUM PLASTER BOARD</u>			
<u>Prepare surfaces and remove all loose material and apply one coat "Plascon Merit Universal Undercoat" and two coats "Plascon Professional Copolymer Acrylic PEM 600" paint according to manufacturers specifications</u>			
3	On ceilings	m2	16
<u>ON FIBRE CEMENT</u>			
<u>Prepare surfaces and remove all loose material and apply one coat "Plascon Merit Universal Undercoat" and two coats "Plascon Professional Copolymer Acrylic PEM 600" paint according to manufacturers specifications</u>			
4	On external fascias and bargeboards	m2	2
Carried Forward			R
Section No. 4 Bill No. 13 Paintwork			

Brought Forward

ON METAL

Prepare surfaces and remove all loose material and apply one coat Plascon Metal Primer, one coat Plascon Universal Undercoat and two coats Plascon Eggshell Enamel paint

5 On door frames m2

1

ON WOOD

Stop, fill, sand down and prepare wood surfaces. Apply one coat "Plascon Wood Primer (UC2)", one coat "Plascon Universal Undercoat (UC1)" and two coats "Plascon Polyurethane Velvagio (VLO) paint according to manufacturers specifications.

6 On doors m2

8

R

Carried Forward to Summary of Section No. 4

Section No. 4
 Bill No. 13
 Paintwork

R

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 14</u></p>			
<p><u>PROVISIONAL SUMS</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>General</u></p>			
<p>Unless otherwise described, all prime cost amounts and provisional sums shall be nett. No provision for 5 percent cash discount shall be included for the main contractor.</p>			
<p>Prime cost amounts and provisional sums exclude value added tax.</p>			
<p>In the event of a prime cost amount or provisional sum being omitted the items "Allow for profit"... and "allow for attendance" applicable, shall be omitted together with the prime cost amount or provisional sum and no claim whatsoever will be entertained in this regard.</p>			
<p>The principle agent shall be entitled to nominate or select any further specialist and other to execute work or supply and fix any goods whether or not a provisional sum is included in the bills of quantities and such specialists and other will then be deemed to be "selected subcontractors" as the case may be.</p>			
<p><u>Profit</u></p>			
<p>Where profit stated, the contractor may allow for profit if required</p>			
<p>Carried Forward</p>			
<p>Section No. 4 Bill No. 14 Provisional Sums</p>			
			R

Brought Forward

R

Attendance upon nominated/selected subcontractors

The item "Allow for attendance...." which follows each provisional sum for nominated/selected subcontractors work, shall be deemed to cover all the contractors costs including scaffolding, incurred in providing free of charge to the subcontractor the service as set out in the relevant clause in the preliminaries

Taking delivery

Taking delivery of goods or articles by the contractor on site shall mean getting in, unpacking, checking that the quantity is correct and that the goods are complete and undamaged, submitting a report thereof to the interested parties and issuing vouchers for the receipt of such goods. The contractor is to store the goods and will be held responsible for the safety thereof and indemnify the employer against any damage or loss which may occur.

Works executed under a separate/direct contract

The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence.

Co-ordination

The contractor shall obtain all necessary particulars of the subcontractors work timeously and the contractor will be responsible for the programming and co-ordination of the works

Number of nominated/selected subcontractors

The contractors attention is drawn to the fact that the indicated individual provisional sums may consist of numerous specialist, which will become nominated/selected subcontractors. The contractor must therefore allow in his tender for any cost implication this may bring about, as no claims in this regard will be entertained

Carried Forward

R

Section No. 4
 Bill No. 14
 Provisional Sums

Brought Forward		R
<u>ALUMINIUM WINDOWS AND DOORS</u>		
1	Provide the amount of R30,000.00 for the Aluminium Windows and Doors	30,000.00
2	Allow for profit on the above item	
3	Allow for general attendance	
<u>TIMBER ROOF STRUCTURE</u>		
4	Provide the amount of R35,000.00 for the Timber Roof Structure	35,000.00
5	Allow for profit on the above item	
6	Allow for general attendance	
<u>ELECTRICAL WORKS</u>		
7	Provide the amount of R25,000.00 for the Electrical Works Installation	25,000.00
8	Allow for profit on the above item	
9	Allow for general attendance	
<u>EARTHING AND LIGHTNING PROTECTION</u>		
10	Provide the amount of R10,000.00 for Earthing and Lightning Protection	10,000.00
11	Allow for profit on the above item	
12	Allow for general attendance	
<u>FIRE PROTECTION EQUIPMENT</u>		
13	Provide the amount of R5,000.00 for Fire Protection Equipment	5,000.00
14	Allow for profit on the above item	
15	Allow for general attendance	
<u>SUNDRY METALWORK</u>		
16	Provide the amount of R5,000.00 for Sundry Metalwork	5,000.00
Carried Forward		R
Section No. 4		
Bill No. 14		
Provisional Sums		

Brought Forward		R
17	Allow for profit on the above item	Item
18	Allow for general attendance	Item
<u>SIGNAGE</u>		
19	Provide the amount of R2,500.00 for Statutory Signage and Naming Signage	Item 2,500.00
20	Allow for profit on the above item	Item
21	Allow for general attendance	Item
<u>IRONMONGERY</u>		
22	Provide the amount of R5,000.00 for supply and installation of Ironmongery	Item 5,000.00
23	Allow for profit on the above item	Item
24	Allow for general attendance	Item
<u>DOUBLE GATE</u>		
25	Provide the amount of R10,000.00 for supply and installation of a Double leaf gate to the Bin area	Item 10,000.00
26	Allow for profit on the above item	Item
27	Allow for general attendance	Item
<u>BUDGETARY ALLOWANCES</u>		
<u>The following work to be executed by the contractor and valued at the rates included in the Bills of Quantities</u>		
28	Provide the amount of R10,000.00 for sundry builders work	Item 10,000.00
29	Provide the amount of R2,500.00 for builders work in connection with services	Item 2,500.00
Carried Forward to Summary of Section No. 4		R
Section No. 4		
Bill No. 14		
Provisional Sums		

SECTION SUMMARY - Guardhouse and Bin Area

Bill No		Page No	Amount
1	Earthworks	67	
2	Concrete, Formwork and Reinforcement	70	
3	Masonry	72	
4	Waterproofing	74	
5	Roof Coverings	76	
6	Carpentry and Joinery	77	
7	Ceilings and Partitions	78	
8	Metalwork	79	
9	Plastering	80	
10	Tiling	81	
11	Plumbing and Drainage	84	
12	Glazing	85	
13	Paintwork	88	
14	Provisional Sums	92	
Carried to Final Summary			
Section No. 4			R

Item No	<u>SECTION 5: EXTERNAL WORKS</u>	Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>SITE WORKS</u>			
	<u>SITE CLEARANCE ETC</u>			
	Protection of any existing trees will be indicated on site and marked by the Principal Agent.			
	The removal of all tree roots and hedges etc., with trunks of all sizes and backfilling shall be included within the site clearance. Site clearance shall include the removal of all obstructions including roads, roadwork layers, pavings, kerbs, bases, septic tanks, manholes, stormwater inlets, poles, fences, pipes, cables, scrap metal, rubble, rubbish and anything else encountered on site.			
	The Contractor is to locate and mark the positions of existing services affected by the excavations and demolition work.			
	Bulk excavation has been measured from the contours and platforms shown and Tenderers must satisfy themselves as to the accuracy of these levels and under the Site Clearance item must allow for all additional excavation required to clear and level the site to the true contours shown. Extra over excavation in different classes of materials will not be paid for under the Site Clearance item.			
	"Soft Rock and Intermediate Rock" has not been identified by way of separate measurement. The Contractor shall thus include within his pickable excavation rates for all materials encountered with the exception of "Hard Rock".			
1	<u>Site clearance</u> Allow for clearing the site of all rubbish, vegetation matter, grass, shrubs, bushes, small trees etc. not exceeding 200mm girth, remove from site to a dumping ground to be located by the Contractor.	m2	7,654	
	Carried Forward			R
	Section No. 5 Bill No. 1 Site Works			

Brought Forward			R
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m3	1,148
<u>BULK EXCAVATION, FILLING, ETC</u>			
<u>Reduce level in earth over sloping site</u>			
3	Cut to spoil to form platforms	m3	1,957
<u>Extra over bulk excavations in earth for excavation in</u>			
4	Hard rock	m3	59
<u>Extra over all excavations for carting away</u>			
5	Cart away spoil on site to a dumping site to be located by the contractor	m3	228
<u>Risk of collapse of excavations</u>			
6	Sides of bulk excavations not exceeding 1,5m deep	m2	500
<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water		Item
All filling whether obtained from the excavations or by the Contractor must be approved by the Engineer.			
<u>G7 Earth filling supplied by the contractor compacted to 95% Mod AASHTO density in 150mm layers.</u>			
8	Over site to form building platforms	m3	5,181
<u>G5 quality earth filling supplied by the contractor to be compacted to 95% Mod AASHTO density in layers of 150mm</u>			
9	Under Paving, Premix, slabs, etc.	m3	702
<u>G2 sub-base stabilised quality earth filling supplied by the contractor to be compacted to 99% Mod AASHTO density in layers of 150mm</u>			
10	Under paving, Premix, etc.	m3	702
Carried Forward			R
Section No. 5 Bill No. 1 Site Works			

Brought Forward			R
	<u>Imported inert granular C4 layer (UCS 0.75 to 1.5MPa at 100% Modified AASHTO and Maximum size of 63mm), stabilized typically with 3% by mass of cement and compacted to 97% MOD. AASHTO density in 150mm layers.</u>		
11	Under paving, Premix, etc.	m3	702
	Note: Prices for soil tests must be included in the Contractor's rates for earthworks items		
12	Modified AASHTO Density tests	No	25
	<u>Compaction of surfaces</u>		
13	Rip and Scarify for a depth of 150mm of ground surface and re-compact to 95% Mod AASHTO density	m2	4,682
	<u>Soil insecticide</u>		
14	Under paving,slabs, Premix, etc.	m2	4,682
	<u>ASPHALT SURFACING</u>		
	<u>40mm Thick continuously graded asphalt wearing course</u>		
15	Asphalt laid to slight falls complete including primers, etc	m2	4,682
	<u>KERBING</u>		
	<u>Figure 6 pre-cast concrete kerb, including all haunching, additional excavations, backfilling, concrete benching to correct lines, slopes, etc.</u>		
16	Kerbing.	m	807
17	Circular on plan	m	111
	<u>ROAD SIGNAGE</u>		
	<u>Paintwork</u>		
	<u>Prepare and apply one coat white reflective road marking paint on bituminous road surfacing, precast paving blocks, Ashpalt, etc.</u>		
18	100mm Wide line	m	1,250
	Carried Forward		R
	Section No. 5 Bill No. 1 Site Works		

Brought Forward			R
19	Arrow size 1500 x 900mm overall	No	30
20	Disabled parking sign 1400mm in overall length	No	3
<u>RETAINING WALLS</u>			
21	Infraset Terrace block TB500 retaining wall on 30Mpa concrete foundation, backfilling to be selected granular fill and stabilised with 4% cement and to be compacted in 200mm layers 1.2m behind the walls. Backfill to be compacted to 96% MOD AASHTO to be placed against S120 woven goefabric. First row of blocks to be cast into foundation. All blocks to be filled with clean soil	m2	279
<u>SUBSOIL DRAINAGE</u>			
22	100mm diameter Agri pipe with 19mm stone surround, wrapped in U14 Bidim and laid to fall to Stormwater system or vent through wall	m	399
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Bill No. 1			
Site Works			

Item No	<u>BILL NO. 2</u>	Quantity	Rate	Amount
	<u>SEWER</u>			
	For preambles see "Model Preambles for Trades"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Execution of Works</u>			
	All works to be executed with the relevant clauses of SANS 1200. Measurement and payment items according to SANS 1200 are to be disregarded.			
	<u>SEWER PIPES COMPLETE</u>			
	<u>Excavate in all materials for trenches, risk of collapse, backfill, compact and dispose of surplus material to spoil heaps on site not exceeding 0.5km, inclusive of battering or shoring. Supply, handle, lay, joint 110mm diameter 400 KPa uPVC sewer pipes in accordance with SANS 1200 DB and SANS 1200LD on Class B bedding (Described below). Backfilling from trench excavation to be free from stones with an optimum moisture content, compacted to 90% MOD AASHTO density in layers of 150mm. Bedding: Bedding from trench excavations in accordance with SANS 1200LB, selected granular material with PI not exceeding 6, free from stones exceeding 20mm, organic matter and lumps of clay.</u>			
1	110mm diameter sewer pipe - SABS 1601-400 kPa Maincore or similar approved uPVC pipes. exceeding 1.0m deep and not exceeding 2.0m deep.	m	56	
	<u>SEWER MANHOLES COMPLETE</u>			
	Carried Forward			R
	Section No. 5 Bill No. 2 Sewer			

Brought Forward		R
<p><u>750mm diameter Precast concrete manhole including insitu concrete base, Calcamite step irons, Type '2' Cast iron frames and type 2 concrete covers, taking cognisance of the following information: All Manholes are to be constructed as specified in SABS 1200 LD clause 5.6 and drawing LD-5. Flexible connections to manholes are to be provided as specified on drawing LD-2 of SABS 1200 LD. Manhole rings are to be grouted in general and in addition sealed externally with "Pipe Guard PG 3 Primer" followed by "LDP 030 Polyethelene Band" 200mm wide or equally approved, Manhole to be laid on 250mm thick 20Mpa concrete base. Benching (1 Cement: 2 Sand) to be 13mm thick and be steel float finish.</u></p>		
2	Depth exceeding 1,5 m deep and not exceeding 2,0 m deep	No 4
<p><u>SUNDRIES</u></p>		
3	Allow for testing of sewer on completion	Item
<p><u>SEWER CONSERVANCY TANK</u></p>		
4	Allow an amount of R40,000.00 for the construction of a Sewer Conservancy Tank complete	Item 40,000.00
<p>Carried Forward to Summary of Section No. 5</p>		R
<p>Section No. 5 Bill No. 2 Sewer</p>		

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 3</u></p>			
<p><u>STORMWATER DRAINAGE</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Execution of Works</u></p>			
<p>All works to be executed with the relevant clauses of SANS 1200. Measurement and payment items according to SANS 1200 are to be disregarded.</p>			
<p><u>Concrete pipes:</u></p>			
<p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings</p>			
<p><u>Excavations</u></p>			
<p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling</p>			
<p>"Soft rock" and "hard rock" shall be as defined in "Earthworks"</p>			
<p><u>Laying, backfilling, bedding, etc. of pipes</u></p>			
<p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p>			
<p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:</p>			
<p>SANS 1200 L : Medium-pressure pipelines</p>			
<p>LD : Sewers</p>			
<p>LE : Stormwater drainage</p>			
<p>Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200</p>			
<p>DB : Earthworks (Pipe trenches)</p>			
<p>Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200</p>			
<p>LB : Bedding (Pipes).</p>			
<p>Unless otherwise described bedding of rigid pipes shall be class B bedding</p>			
<p>Carried Forward</p>			
<p>Section No. 5 Bill No. 3 Stormwater</p>			
			R

Brought Forward		R
<p><u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.</u></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc</p>		
<p><u>STORMWATER PIPE COMPLETE</u></p> <p><u>Excavate in all materials for trenches, risk of collapse, backfill, compact and dispose of surplus material to spoil heaps on site not exceeding 0.5km, inclusive of battering or shoring. Supply, handle, lay, joint 450mm diameter Precast concrete stormwater pipes in accordance with SABS/SANS 1200 DB and SANS 1200LE on Class B bedding (Described below). Backfilling from trench excavation to be free from stones with an optimum moisture content, compacted to 90% MOD AASHTO density in layers of 150mm. Bedding: 19mm Crushed stone bedding in accordance with SANS 1200LB</u></p>		
1	<p>Class 100 D 450mm diameter precast concrete pipe at 2% grade with spigot and socket joints on crushed stone bedding with nominal diameter, exceeding 1.0m deep and not exceeding 2.0m deep.</p> <p style="text-align: right;">m</p>	3
2	<p>Class 100 D 375mm diameter precast concrete pipe at 2% grade with spigot and socket joints on crushed stone bedding with nominal diameter, exceeding 1.0m deep and not exceeding 2.0m deep.</p> <p style="text-align: right;">m</p>	31
3	<p>Class 100 D 300mm diameter precast concrete pipe at 2% grade with spigot and socket joints on crushed stone bedding with nominal diameter, exceeding 1.0m deep and not exceeding 2.0m deep.</p> <p style="text-align: right;">m</p>	47
4	<p>Class 100 D 100mm diameter precast concrete pipe at 2% grade with spigot and socket joints on crushed stone bedding with nominal diameter, exceeding 1.0m deep and not exceeding 2.0m deep.</p> <p style="text-align: right;">m</p>	77
<p><u>STORMWATER SUMPS</u></p>		
Carried Forward		R
<p>Section No. 5 Bill No. 3 Stormwater</p>		

Brought Forward			R
	<u>Stormwater sump, 682 x 682mm with 112.5mm thick concrete insitu base on Ref. 193 mesh reinforcement, one brick walls plastered internally</u>		
5	Stormwater sump, invert level exceeding 1.0 and not exceeding 2.0m deep	No	17
	<u>Grids, inlets, etc.</u>		
6	450 x 450mm cast iron cover and frame	No	17
<u>STORMWATER ATTENUATION TANK PLAN</u>			
7	Allow an amount of R30,000.00 for the construction of a Stormwater Attenuation Tank complete	Item	30,000.00
<u>TESTING</u>			
8	Allow for testing of the stormwater system on completion	Item	
Carried Forward to Summary of Section No. 5			
Section No. 5			R
Bill No. 3			
Stormwater			

Item No	Quantity	Rate	Amount
<u>BILL NO. 4</u>			
<u>WATER RETICULATION</u>			
For preambles see "Model Preambles for Trades"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Execution of Works</u>			
All works to be executed with the relevant clauses of SANS 1200. Measurement and payment items according to SANS 1200 are to be disregarded.			
<u>Contractors are to refer to the following drawings when pricing:</u>			
1. J250-10-04 - Revision 'T' - Detailed Layout Bulk Domestic Water			
2. J250-15-05 - Revision 'T' - Standard Detail Water (Sheet 1 od 2)			
3. J250-15-06 - Revision 'T' - Standard Detail Water (Sheet 2 od 2)			
<u>WATER PIPES COMPLETE</u>			
<u>Excavate in all materials for trenches, risk of collapse, backfill, compact and dispose of surplus material to spoil heaps on site not exceeding 0.5km, inclusive of battering or shoring. Supply, handle, lay, joint HDPE PE 80 PN 12 potable water pipes in accordance with SABS/SANS 1200 DB and SANS 1200L on Class B bedding (Described below). Backfilling from trench excavation to be free from stones with an optimum moisture content, compacted to 90% MOD AASHTO density in layers of 150mm. Bedding: Bedding from trench excavations in accordance with SANS 1200LB, selected granular material with PI not exceeding 6, free from stones exceeding 20mm, organic matter and lumps of clay.</u>			
1	75mm diamater HDPE PE 80 PN 16 potable water pipes	m	97
Carried Forward			R
Section No. 5 Bill No. 4 Potable Water			

Brought Forward			R
<u>Extra over HDPE pipes for HDPE PE 80 PN 16 pressure fittings with rubber joints</u>			
2	50mm 90-degree bend	No	2
3	50mm T-piece	No	2
4	50mm HDPE to uPVC adaptor	No	1
<u>Sundries</u>			
5	Unreinforced concrete in thrust blocks at bends, tees, etc, including necessary extra excavation, formwork, etc	No	5
<u>WATER CONNECTIONS</u>			
6	Supply and install meters complete with couplings.	No	1
7	Site testing of meters.	No	1
8	Supply and install stop taps complete with special fittings.	No	2
9	Supply and install 50mm Gate Valves to HDPE PE 80 PN 16 50mm diameter pipes	No	1
10	Markings or marker posts.	No	1
11	Allow for connection to the existing water network	Item	
12	Allow an amount of R5,000.00 for water pipe fittings.	Item	5,000.00
<u>SUNDRIES</u>			
<u>Tests</u>			
13	Allow for pressure testing of the network	Item	10,000.00
14	Allow for profit on above	Item	
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Bill No. 4			
Potable Water			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 5</u></p>			
<p><u>PROVISIONAL SUMS</u></p>			
<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p>			
<p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>General</u></p>			
<p>Unless otherwise described, all prime cost amounts and provisional sums shall be nett. No provision for 5 percent cash discount shall be included for the main contractor.</p>			
<p>Prime cost amounts and provisional sums exclude value added tax.</p>			
<p>In the event of a prime cost amount or provisional sum being omitted the items "Allow for profit"... and "allow for attendance" applicable, shall be omitted together with the prime cost amount or provisional sum and no claim whatsoever will be entertained in this regard.</p>			
<p>The principle agent shall be entitled to nominate or select any further specialist and other to execute work or supply and fix any goods whether or not a provisional sum is included in the bills of quantities and such specialists and other will then be deemed to be "selected subcontractors" as the case may be.</p>			
<p><u>Profit</u></p>			
<p>Where profit stated, the contractor may allow for profit if required</p>			
<p>Carried Forward</p>			
<p>Section No. 5 Bill No. 5 Provisional Sums</p>			
			R

Brought Forward		R	
<u>Attendance upon nominated/selected subcontractors</u>			
<p>The item "Allow for attendance...." which follows each provisional sum for nominated/selected subcontractors work, shall be deemed to cover all the contractors costs including scaffolding, incurred in providing free of charge to the subcontractor the service as set out in the relevant clause in the preliminaries</p>			
<u>Taking delivery</u>			
<p>Taking delivery of goods or articles by the contractor on site shall mean getting in, unpacking, checking that the quantity is correct and that the goods are complete and undamaged, submitting a report thereof to the interested parties and issuing vouchers for the receipt of such goods. The contractor is to store the goods and will be held responsible for the safety thereof and indemnify the employer against any damage or loss which may occur.</p>			
<u>Works executed under a separate/direct contract</u>			
<p>The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence.</p>			
<u>Co-ordination</u>			
<p>The contractor shall obtain all necessary particulars of the subcontractors work timeously and the contractor will be responsible for the programming and co-ordination of the works</p>			
<u>Number of nominated/selected subcontractors</u>			
<p>The contractors attention is drawn to the fact that the indicated individual provisional sums may consist of numerous specialist, which will become nominated/selected subcontractors. The contractor must therefore allow in his tender for any cost implication this may bring about, as no claims in this regard will be entertained</p>			
<u>LANDSCAPING</u>			
1	Provide the amount of R50,000.00 for Landscaping	Item	50,000.00
Carried Forward		R	
<p>Section No. 5 Bill No. 5 Provisional Sums</p>			

		Brought Forward		R
2	Allow for profit on the above item		Item	
3	Allow for general attendance		Item	
		<u>FENCING</u>		
4	Provide the amount of R200,000.00 for Fencing		Item	200,000.00
5	Allow for profit on the above item		Item	
6	Allow for general attendance		Item	
		<u>EXTERNAL SITE LIGHTING</u>		
7	Provide the amount of R50,000.00 for External Site Lighting		Item	50,000.00
8	Allow for profit on the above item		Item	
9	Allow for general attendance		Item	
		<u>CARPORTS</u>		
10	Provide the amount of R80,000.00 for Carports		Item	80,000.00
11	Allow for profit on the above item		Item	
12	Allow for general attendance		Item	
		<u>JOJO TANKS</u>		
13	Provide the amount of R15,000.00 for Supply and Installation of JOJO Tanks		Item	15,000.00
14	Allow for profit on the above item		Item	
15	Allow for general attendance		Item	
		<u>BUDGETARY ALLOWANCES</u>		
		<u>The following work to be executed by the contractor and valued at the rates included in the Bills of Quantities</u>		
16	Provide the amount of R2,500,000.00 for the construction of an access road and bulk services		Item	2,500,000.00
		Carried Forward		R
Section No. 5				
Bill No. 5				
Provisional Sums				

MTHATHA TRAFFIC STATION

Brought Forward		R
17	Provide the amount of R777,500.00 for Specialist Mechanical Engineering Services	777,500.00
18	Provide the amount of R777,500.00 for Specialist Electrical Engineering Services	777,500.00
19	Provide the amount of R780,000.00 for Specialist Structural Engineering Services	780,000.00
20	Provide the amount of R60,000.00 for Consultants Accommodation	60,000.00
21	Provide the amount of R50,000.00 for sundry builders work	50,000.00
22	Provide the amount of R42,000.00 for Consultants Cellphones	42,000.00
Carried Forward to Summary of Section No. 5		R
Section No. 5		
Bill No. 5		
Provisional Sums		

SECTION SUMMARY - External Works

Bill No		Page No	Amount
1	Site Works	97	
2	Sewer	99	
3	Stormwater	102	
4	Potable Water	104	
5	Provisional Sums	108	
Carried to Final Summary			
Section No. 5			R

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Conditions of Contract	27	
2	Admin Office	61	
3	Testing Office	64	
4	Guardhouse and Bin Area	93	
5	External Works	109	
	Sub Total		R
	Allow a Contingency of 10%		R
	Sub Total		R
	Add Vat @ 15%		R
	GRAND TOTAL		R
Carried to Form of Tender			R